

**Coast Guard, DHS**

**Pt. 150, Table I**

FIGURE 1 TO PART 150—COMPATIBILITY CHART

Figure I - Compatibility chart

CARGO COMPATIBILITY	REACTIVE GROUPS																					
	1. NON-OXIDIZING MINERAL ACIDS	2. SULFURIC ACID	3. NITRIC ACID	4. ORGANIC ACIDS	5. CAUSTICS	6. AMMONIA	7. ALIPHATIC AMINES	8. ALKANOLAMINES	9. AROMATIC AMINES	10. AMIDES	11. ORGANIC ANHYDRIDES	12. ISOCYANATES	13. VINYL ACETATE	14. ACRYLATES	15. SUBSTITUTED ALLYLS	16. ALKYLENE OXIDES	17. EPICHLOROHYDRIN	18. KETONES	19. ALDEHYDES	20. ALCOHOLS, GLYCOLS	21. PHENOLS, CRESOLS	22. CAPROLACTAM SOLUTION
1. NON-OXIDIZING MINERAL ACIDS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2. SULFURIC ACID	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
3. NITRIC ACID	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4. ORGANIC ACIDS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5. CAUSTICS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6. AMMONIA	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7. ALIPHATIC AMINES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8. ALKANOLAMINES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9. AROMATIC AMINES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10. AMIDES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11. ORGANIC ANHYDRIDES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12. ISOCYANATES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
13. VINYL ACETATE	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14. ACRYLATES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
15. SUBSTITUTED ALLYLS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
16. ALKYLENE OXIDES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
17. EPICHLOROHYDRIN	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18. KETONES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
19. ALDEHYDES	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20. ALCOHOLS, GLYCOLS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
21. PHENOLS, CRESOLS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22. CAPROLACTAM SOLUTION	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30. OLEFINS	x	x																				
31. PARAFFINS																						
32. AROMATIC HYDROCARBONS	x																					
33. MISCELLANEOUS HYDROCARBON MIXTURES	x																					
34. ESTERS	x	x																				
35. VINYL HALIDES	x																					
36. HALOGENATED HYDROCARBONS																						
37. NITRILES	x																					
38. CARBON DISULFIDE																						
39. SULFOLANE																						
40. GLYCOL ETHERS	x																					
41. ETHERS	x	x																				
42. NITROCOMPOUNDS																						
43. MISCELLANEOUS WATER SOLUTIONS	x																					

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Acetaldehyde .....	19	.....	AAD	
Acetic acid .....	4	2	AAC	
Acetic anhydride .....	11	.....	ACA	
Acetochlor .....	10	.....	ACG	
Acetone .....	18	2	ACT	
Acetone cyanohydrin .....	0	1, 2	ACY	
Acetonitrile .....	37	.....	ATN	
Acetophenone .....	18	.....	ACP	
Acrolein .....	19	2	ARL	
Acrylamide solution .....	10	.....	AAM	
Acrylic acid .....	4	2	ACR	
Acrylonitrile .....	15	2	ACN	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol .....	20	.....	ALE	
Adiponitrile .....	37	.....	ADN	
Alachlor .....	33	.....	ALH	
Alcohols (C13+) .....	20	.....	ALY	
<i>Including:</i>				
Oleyl alcohol (octadecenol)				
Pentadecanol				
Tallow alcohol				
Tetradecanol				
Tridecanol				
Alcoholic beverages .....	20	.....	APU/APV/APW/AET	
Alcohol polyethoxylates .....	20	.....		

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Alcohol polyethoxylates, secondary .....	20			
Alkanes (C6-C9) .....	31	1	ALK	AEA/AEB
<i>Including:</i>				
<i>Heptanes</i>				
<i>Hexanes</i>				
<i>Nonanes</i>				
<i>Octanes</i>				
n-Alkanes (C10+) .....	31	1	ALJ	
<i>Including:</i>				
<i>Decanes</i>				
<i>Dodecanes</i>				
<i>Heptadecanes</i>				
<i>Tridecanes</i>				
<i>Undecanes</i>				
iso- & cyclo-Alkanes (C10-C11) .....	31	1	AKI	
iso- & cyclo-Alkanes (C12+) .....	31	1	AKJ	
Alkane (C14-C17) sulfonic acid, sodium salt solution .....	34		AKA	
Alkaryl polypolymer (C9-C20) .....	41		AKP	
Alkenyl(C11+)-amide .....	11		AKM	
Alkenyl(C16-C20)-succinic anhydride .....	11		AAH	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene .....	32		AAP	
Alkyl(C8+)-amine, Alkenyl (C12+) acid ester mixture .....	34		AAA	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomer). ....	34		APD	
Alkyl(C3-C4)-benzenes .....	32		AKC	
<i>Including:</i>				
<i>Butylbenzenes</i>				
<i>Cumene</i>				
<i>Propylbenzenes</i>				
Alkyl(C5-C8)-benzenes .....	32		AKD	
<i>Including:</i>				
<i>Amylbenzenes</i>				
<i>Heptylbenzenes</i>				
<i>Hexylbenzenes</i>				
<i>Octylbenzenes</i>				
Alkyl(C9+)-benzenes .....	32		AKB	
<i>Including:</i>				
<i>Decylbenzenes</i>				
<i>Dodecylbenzenes</i>				
<i>Nonylbenzenes</i>				
<i>Tetradecylbenzenes</i>				
<i>Tetrapropylbenzenes</i>				
<i>Tridecylbenzenes</i>				
<i>Undecylbenzenes</i>				
Alkylbenzene, Alkylin dane, Alkylin dene mixture (each C12-C17) .....	32	1, 2	AIH	ABS/ABN
Alkylbenzenesulfonic acid .....	0			
Alkylbenzenesulfonic acid, sodium salt solutions .....	33		ABT	
Alkyl dithiothiadiazole (C6-C24) .....	33		ADT	
Alkyl ester copolymer (C4-C20) .....	34		AES	
Alkyl(C7-C9) nitrates .....	34	2	AKN	ONE
Alkyl(C7-C11) phenol poly(4-12)ethoxylate .....	40		APN	
Alkyl(C8-C40) phenol sulfide .....	34		AKS	
Alkyl(C8-C9) phenylamine in aromatic solvents .....	9		ALP	
Alkyl(C9-C15) phenyl propoxylate .....	40			
Alkyl phthalates .....	34			
Alkyl(C10-C20, saturated and unsaturated) phosphite .....	34		AKL	AGL/AGN/AGO/AGP/AGM
Alkyl polyglucoside solutions .....	43			
Alkyl sulfonic acid ester of phenol .....	34			
Allyl alcohol .....	15	2	ALA	
Allyl chloride .....	15	1	ALC	
Aluminum chloride, Hydrochloric acid solution .....	0	1	AHS	
Aluminum sulfate solution .....	43	2	ASX	ALM
2-(2-Aminoethoxy)ethanol .....	8		AEX	
Aminoethyl diethanolamine, Aminoethyl ethanolamine solution .....	8			
Aminoethyl ethanolamine .....	8		AEE	
N-Aminoethylpiperazine .....	7		AEP	
2-Amino-2-hydroxymethyl-1,3-propanediol solution .....	43		AHL	
2-Amino-2-methyl-1-propanol .....	8		APQ	APR
Ammonia, anhydrous .....	6		AMA	
Ammonia, aqueous (28% or less Ammonia) ( <i>IMO cargo name</i> ), see Ammonium hydroxide. ....	6		AMH	
Ammonium bisulfite solution .....	43	2	ABX	ASU

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Ammonium hydrogen phosphate solution .....	0	1	AMI	
Ammonium hydroxide (28% or less Ammonia) .....	6	.....	AMH	
Ammonium lignosulfonate solution, <i>see also</i> Lignin liquor .....	43	.....		
Ammonium nitrate solution .....	0	1	ANR	AND/AMN
Ammonium nitrate, Urea solution (containing Ammonia) .....	6	.....	UAS	
Ammonium nitrate, Urea solution (not containing Ammonia) .....	43	.....	ANU	UAT
Ammonium polyphosphate solution .....	43	.....	AMO	APP
Ammonium sulfate solution .....	43	.....	AME	AMS
Ammonium sulfide solution .....	5	.....	ASS	ASF
Ammonium thiocyanate, Ammonium thiosulfate solution .....	0	1	ACS	
Ammonium thiosulfate solution .....	43	.....	ATV	ATF
Amyl acetate .....	34	.....	AEC	IAT/AML/AAS/AYA
Amyl alcohol .....	20	.....	AAI	IAA/AAN/ASE/APM
<i>Amylene, see Pentene</i> .....	.....	.....	AMZ	
<i>tert-Amyl methyl ether (see also, Methyl tert-pentyl ether)</i> .....	41	.....	AYE	
<i>Amyl methyl ketone, see Methyl amyl ketone</i> .....	.....	.....	AMK	MAK
Aniline .....	9	.....	ANL	
Animal and Fish oils, n.o.s. ....	34	.....	AFN	
<i>Including:</i>				
<i>Cod liver oil</i>				
<i>Lanolin</i>				
<i>Neatsfoot oil</i>				
<i>Pilchard oil</i>				
<i>Sperm oil</i>				
Animal and Fish acid oils and distillates, n.o.s. ....	34	.....	AFA	
<i>Including:</i>				
<i>Animal acid oil</i>				
<i>Fish acid oil</i>				
<i>Lard acid oil</i>				
<i>Mixed acid oil</i>				
<i>Mixed general acid oil</i>				
<i>Mixed hard acid oil</i>				
<i>Mixed soft acid oil</i>				
Anthracene oil (Coal tar fraction), <i>see</i> Coal tar .....	33	.....	AHO	COR
Apple juice .....	43	.....		
Aryl polyolefin (C11-C50) .....	30	.....	AYF	
Asphalt .....	33	.....	ASP	ACU
Asphalt blending stocks, roofers flux .....	33	.....	ARF	
Asphalt blending stocks, straight run residue .....	33	.....	ASR	
Asphalt emulsion ( <i>ORIMULSION</i> ) .....	33	.....	ASQ	
Aviation alkylates .....	33	.....	AVA	GAV
Barium long chain alkaryl(C11-C50) sulfonate .....	34	.....	BCA	
Barium long chain alkyl(C8-C14)phenate sulfide .....	34	.....	BCH	
Behenyl alcohol .....	20	.....		
Benzene .....	32	.....	BNZ	
Benzene hydrocarbon mixtures (having 10% Benzene or more) .....	32	.....	BHB	BHA
Benzenesulfonyl chloride .....	0	1, 2	BSC	
Benzene, Toluene, Xylene mixtures .....	32	2	BTX	
Benzene tricarboxylic acid, trioctyl ester .....	34	.....		
Benzylacetate .....	34	.....	BZE	
Benzyl alcohol .....	21	.....	BAL	
Benzyl chloride .....	36	.....	BCL	
Brake fluid base mixtures .....	20	.....	BFX	
Bromochloromethane .....	36	.....	BCM	
Butadiene .....	30	.....	BDI	
Butadiene, Butylene mixtures (cont. Acetylenes) .....	30	.....	BBM	
Butane .....	31	1	BMX	IBT/BUT
<i>1,4-Butanediol, see</i> Butylene glycol .....	.....	.....	BDO	BUG
<i>2-Butanone, see</i> Methyl ethyl ketone .....	.....	.....		IBL/BTN
<i>Butene, see</i> Butylene .....	.....	.....		
Butene oligomer .....	30	.....	BOL	
Butyl acetate .....	34	.....	BAX	IBA/BCN/BTA/BYA
Butyl acrylate .....	14	1	BAR	BAI/BTC
Butyl alcohol .....	20	2	BAY	IAL/BAN/BAS/BAT
Butylamine .....	7	.....	BTY	IAM/BAM/BTL/BUA
Butylbenzene, <i>see</i> Alky(C3-C4)benzenes .....	32	.....	BBE	AKC
Butyl benzyl phthalate .....	34	.....	BPH	
Butyl butyrate .....	34	.....	BBA	BUB/BIB
Butylene .....	30	.....	BTN	IBL
Butylene glycol .....	20	2	BUG	BDO
<i>1,3-Butylene glycol, see</i> Butylene glycol .....	.....	.....		BUG
Butylene oxide .....	16	1	BTO	
Butyl ether .....	41	.....	BTE	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Butyl formate .....	34 .....			BFI/BFN
Butyl heptyl ketone .....	18 .....		BHK	
Butyl methacrylate .....	14 .....	1	BMH	BMI/BMN
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture.	14 .....	1	DER	
<i>Butyl methyl ketone, see Methyl butyl ketone</i> .....	.....			MBK
Butyl phenol, Formaldehyde resin in Xylene .....	32 .....			
n-Butyl propionate .....	34 .....		BPN	
Butyl stearate .....	34 .....			
Butyl toluene .....	32 .....		BUE	
Butyraldehyde .....	19 .....		BAE	BAD/BTR
Butyric acid .....	4 .....		BRA	IBR
gamma-Butyrolactone .....	0 .....	1, 2	BLA	
C9 Resinfeed (DSM) .....	32 .....	2	CNR	
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture .....	34 .....		CPX	
Calcium alkyl salicylate, <i>see also</i> Calcium long chain alkyl salicylate (C13+) .....	.....			CAK
Calcium bromide solution, <i>see</i> Drilling brines .....	.....			DRB
Calcium bromide, Zinc bromide solution, <i>see</i> Drilling brine (containing Zinc salts).	.....			DZB
Calcium carbonate slurry .....	34 .....			
Calcium chloride solution .....	43 .....		CCS	CLC
Calcium hydroxide slurry .....	5 .....		COH	
Calcium hypochlorite solutions .....	5 .....			CHZ/CHU/CHY
Calcium lignosulfonate solution, <i>see also</i> Lignin liquor .....	43 .....			
Calcium long chain alkyl sulfonate (C11-C50) .....	34 .....		CAY	
Calcium long chain alkyl phenates .....	34 .....			CAN/CAW
Calcium long chain alkyl phenate sulfide (C8-C40) .....	34 .....		CPI	
Calcium long chain alkyl salicylate (C13+) .....	34 .....		CAK	
Calcium long chain alkyl phenolic amine (C8-C40) .....	9 .....		CPQ	
Calcium nitrate solution .....	34 .....		CNU	
Calcium nitrate, Magnesium nitrate, Potassium chloride solution .....	34 .....			
Calcium sulfonate, Calcium carbonate, Hydrocarbon solvent mixture .....	33 .....			
Camphor oil .....	18 .....		CPO	
Canola oil, <i>see</i> rapeseed oil under "oils, edible."	.....			
Caprolactam solution .....	22 .....		CLS	
Caramel solutions .....	43 .....			
Carbolic oil .....	21 .....		CBO	
Carbon disulfide .....	38 .....		CBB	
Carbon tetrachloride .....	36 .....	2	CBT	
Cashew nut shell oil (untreated) .....	4 .....		OCN	
Catoxid feedstock .....	36 .....	2	CXF	
Caustic potash solution .....	5 .....	2	CPS	
Caustic soda solution .....	5 .....	2	CSS	
<i>Cetyl alcohol (hexadecanol), see Alcohols (C13+)</i> .....	.....			ALY
Cetyl-Eicosyl methacrylate mixture .....	14 .....	1	CEM	ALY
Cetyl-Stearyl alcohol, <i>see</i> Alcohols (C13+) .....	.....			
Chlorinated paraffins (C10-C13) .....	36 .....		CLH	
Chlorinated paraffins (C14-C17) (with 52% Chlorine) .....	36 .....		CLJ	
Chlorine .....	0 .....	1	CLX	
Chloroacetic acid solution .....	4 .....		CHM	CHL/MCA
Chlorobenzene .....	36 .....		CRB	
Chlorodifluoromethane ( <i>monochlorodifluoromethane</i> ) .....	36 .....		MCF	
Chloroform .....	36 .....		CRF	
Chlorhydrins .....	17 .....	1	CHD	
4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution .....	9 .....		CDM	
Chloronitrobenzene .....	42 .....		CNO	
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one .....	18 .....	2	CDP	
Chloropropionic acid .....	4 .....		CPM	CLA/CLP
Chlorosulfonic acid .....	0 .....	1	CSA	
Chlorotoluene .....	36 .....		CHI	CTM/CTO/CRN
Choline chloride solutions .....	20 .....		CCO	
Citric acid .....	4 .....		CIS	CIT
Clay slurry, <i>see also</i> Kaolin clay slurry .....	43 .....			
Coal tar .....	33 .....		COR	OCT
Coal tar distillate .....	33 .....		CDL	
Coal tar, high temperature .....	33 .....		CHH	
Coal tar pitch .....	33 .....		CTP	
Cobalt naphthenate in solvent naphtha .....	34 .....		CNS	
Coconut oil, fatty acid .....	34 .....		CFA	
Copper salt of long chain (C17+) alcanoic acid .....	34 .....		CUS	CFT
Corn syrup .....	43 .....		CSY	
Cottonseed oil, fatty acid .....	34 .....		CFY	
Creosote .....	21 .....	2	CCT	CCW/CWD

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Cresols .....	21 .....		CRS	CRL/CSL/CSO
Cresylate spent caustic .....	5 .....		CSC	
Cresylic acid .....	21 .....		CRY	
Cresylic acid, dephenolized .....	21 .....		CAD	
Cresylic acid, sodium salt solution ( <i>IMO cargo name</i> ), see Cresylate spent caustic .....	5 .....			CSC
Cresylic acid tar .....	21 .....		CRX	
Crotonaldehyde .....	19 .....	2	CTA	
<i>Cumene (isopropyl benzene)</i> , see Propylbenzene .....	.....		CUM	PBY
1,5,9-Cyclododecatriene .....	30 .....		CYT	
Cycloheptane .....	31 .....	1	CYE	
Cyclohexane .....	31 .....	1	CHX	
Cyclohexanol .....	20 .....		CHN	
Cyclohexanone .....	18 .....		CCH	
Cyclohexanone, Cyclohexanol mixtures .....	18 .....	2	CYX	
Cyclohexyl acetate .....	34 .....		CYC	
Cyclohexylamine .....	7 .....		CHA	
1,3-Cyclopentadiene dimer .....	30 .....		CPD	DPT
Cyclopentadiene, Styrene, Benzene mixture .....	30 .....		CSB	
Cyclopentane .....	31 .....	1	CYP	
Cyclopentene .....	30 .....		CPE	
Cymene .....	32 .....		CMP	
Decahydronaphthalene .....	33 .....		DHN	
Decaldehyde .....	19 .....			IDA/DAL ALJ
<i>Decane</i> , see n-Alkanes (C10+) .....	.....		DCC	
Decanoic acid .....	4 .....		DCO	
Decene .....	30 .....		DCE	
Decyl acetate .....	34 .....		DYA	
Decyl acrylate .....	14 .....	1	DAT	IAI/DAR
Decyl alcohol .....	20 .....	2	DAX	ISA/DAN AKB
Decylbenzene, see Alkyl(C9+) benzenes .....	32 .....		DBZ	
Decyloxytetrahydro-thiophene dioxide .....	0 .....	1, 2	DHT	
Degummed C9 (DOW) .....	33 .....		DGC	
Dextrose solution, see Glucose solution .....	43 .....		DTS	GLU
Diacetone alcohol .....	20 .....	2	DAA	
Dialkyl(C10-C14) benzenes, see Alkyl(C9+) benzenes .....	32 .....		DAB	AKB
Dialkyl(C8-C9) diphenylamines .....	9 .....		DAQ	
Dialkyl(C7-C13) phthalates .....	34 .....		DAH	
<i>Including:</i>				
Diisodecyl phthalate .....				
Diisobutyl phthalate .....				
Dinonyl phthalate .....				
Ditridecyl phthalate .....				
Diundecyl phthalate .....				
Dibromomethane .....	36 .....		DBH	
Diethylamine .....	7 .....		DBA	
<i>Diethyl carbinol</i> , see Nonyl alcohol .....	.....		DHD	NNS
Diethyl hydrogen phosphonate .....	34 .....			
Diethylphenols .....	21 .....			DBT/DBV, DBW
Diethyl phthalate .....	34 .....		DPA	
Dichlorobenzene .....	36 .....		DBX	DBM/DBO/DBP
3,4-Dichloro-1-butene .....	36 .....		DCD	
Dichlorodifluoromethane .....	36 .....		DCF	
1,1-Dichloroethane .....	36 .....		DCH	
2,2'-Dichloroethyl ether .....	41 .....		DEE	
1,6-Dichlorohexane .....	36 .....		DHX	
2,2'-Dichloroisopropyl ether .....	36 .....		DCI	
Dichloromethane .....	36 .....		DCM	
2,4-Dichlorophenol .....	21 .....		DCP	
2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution .....	43 .....		DDE	
2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution .....	0 .....	1, 2	DAD	DDA/DSX
2,4-Dichlorophenoxyacetic acid, Trisopropano-lamine salt solution .....	43 .....	2	DTI	
Dichloropropane .....	36 .....		DPX	DPB/DPP/DPC/DPL
1,3-Dichloropropene .....	15 .....	1	DPS	DPU/DPF
Dichloropropene, Dichloropropane mixtures .....	15 .....	1	DMX	
2,2-Dichloropropionic acid .....	4 .....		DCN	
Dicyclopentadiene, see also 1,3-Cyclopentadiene dimer .....	30 .....		DPT	CPD
Diethanolamine .....	8 .....		DEA	
<i>Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution</i> , see 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution .....	.....			DDE
Diethylamine .....	7 .....		DEN	
Diethylaminoethanol ( <i>IMO cargo name</i> ), see Diethylethanolamine .....	8 .....		DAE	
2,6-Diethylaniline .....	9 .....		DMN	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Diethylbenzene .....	32		DEB	
Diethylene glycol .....	40	2	DEG	
<i>Diethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	.....	.....	DME	PAG
<i>Diethylene glycol butyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.</i>	.....	.....	DEM	PAF
Diethylene glycol dibenzoate .....	34	.....	DGZ	
Diethylene glycol dibutyl ether .....	40	.....	DIG	
Diethylene glycol diethyl ether .....	40	.....	DGE	PAG
<i>Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>	.....	.....	DGA	PAF
<i>Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetates.</i>	.....	.....	DHE	PAG
<i>Diethylene glycol n-hexyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	.....	.....	DGM	PAG
<i>Diethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	.....	.....	DGR	PAF
<i>Diethylene glycol methyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.</i>	.....	.....	DGP	
Diethylene glycol phenyl ether .....	40	.....	DGL	
Diethylene glycol phthalate .....	34	.....	DGO	PAG
<i>Diethylene glycol propyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	.....	.....	DET	
Diethylenetriamine .....	7	2	DAE	
Diethylenetriamine pentaacetic acid, pentasodium salt solution .....	43	.....	EET	
Diethylethanolamine .....	8	.....	DAX	
Diethyl ether ( <i>IMO cargo name</i> ), see Ethyl ether .....	41	.....	DEH	
<i>Diethyl hexanol, see Decyl alcohol</i> .....	.....	.....	DEP	
Di-(2-ethylhexyl)adipate .....	34	.....	DIE	DOP
Di-(2-ethylhexyl)phosphoric acid .....	1	1	DPH	
Di-(2-ethylhexyl)phthalate, see Diocyl phthalate .....	34	.....	DSU	
Diethyl phthalate .....	34	.....	BDE	BPA
Diethyl sulfate .....	34	.....	DGF	
Diglycidyl ether of Bisphenol A .....	41	.....	DHP	
Diglycidyl ether of Bisphenol F .....	41	.....	DHA	
Diheptyl phthalate .....	34	.....	DIT	
Di-n-hexyl adipate .....	34	.....	DID	DAH
Dihexyl phthalate .....	34	.....	DNY	
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution .....	5	.....	DIN	DAH
Disobutylamine .....	7	.....	DIO	
Disobutyl carbinol ( <i>commercial cargo name</i> ), see Nonyl alcohol .....	20	.....	DIP	
Disobutylene .....	30	.....	DIA	
Disobutyl ketone .....	18	.....	DIX	
Disobutyl phthalate .....	34	.....	DIK	
<i>Diisodecyl phthalate, see Dialkyl(C7-C13) phthalates</i> .....	.....	.....	DIT	
Diisonyl adipate .....	34	.....	DLS	
<i>Diisonyl phthalate, see Dialkyl(C7-C13) phthalates</i> .....	.....	.....	DLA	
Diisoctyl phthalate .....	34	.....	DMA	
Disopropanolamine .....	8	.....	DMG/DMY/DMC	
Disopropylamine .....	7	.....	CDM	
Disopropylbenzene .....	32	.....	DAD/(DDA/DSX)	
Disopropyl naphthalene .....	32	.....		
N,N-Dimethylacetamide .....	10	.....		
N,N-Dimethylacetamide solution .....	10	.....		
Dimethyl adipate .....	34	.....		
Dimethylamine .....	7	.....		
Dimethylamine solution .....	7	.....		
<i>Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.</i>	.....	.....		
<i>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution.</i>	.....	.....		
2,6-Dimethylaniline .....	9	.....	DMM	XLX
<i>Dimethylbenzene, see Xylenes</i> .....	.....	.....	DXN	
Dimethylcyclisoxane hydrolyzate .....	34	.....	DDY	
N,N-Dimethylcyclohexylamine .....	7	.....	DMB	
N,N-Dimethyldodecylamine ( <i>IMO cargo name</i> ), see Dodecyldimethylamine .....	7	.....	DMF	
Dimethyllethanolamine .....	8	.....	DGT	
Dimethylformamide .....	10	.....	DPI	
Dimethyl furan .....	41	.....	DNS	
Dimethyl glutarate .....	34	2	DMO	
Dimethyl hydrogen phosphite .....	34	2		
Dimethyl naphthalene sulfonic acid, sodium salt solution .....	34	2		
Dimethyloctanoic acid .....	4	.....		

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Dimethyl phthalate .....	34	.....	DTL	
Dimethylpolysiloxane, <i>see</i> Polydimethylsiloxane .....	34	.....	DMP	
2,2-Dimethylpropane-1,3-diol .....	20	.....	DDI	
Dimethyl succinate .....	34	.....	DSE	
Dinitrotoluene .....	42	.....	DNM	DTT/DNL/DNU
<i>Dinonyl phthalate, see Dialkyl(C7-C13) phthalates</i> .....	.....	.....	DIF	DAH
Diethyl phthalate .....	34	.....	DOP	DIE
1,4-Dioxane .....	41	.....	DOX	
Dipentene .....	30	.....	DPN	
Diphenyl .....	32	.....	DIL	
Diphenylamine (molten) .....	9	.....	DAG	DAM/LRM
Diphenylamines, alkylated .....	7	.....	DAJ	
Diphenylamine, reaction product with 2,2,4-trimethylpentene .....	7	.....	DAK	
Diphenyl, Diphenyl ether mixture .....	33	.....	DDO	DTH
Diphenyl ether .....	41	.....	DPE	
Diphenyl ether, Diphenyl phenyl ether mixture .....	41	.....	DOB	
Diphenylmethane diisocyanate .....	12	.....	DPM	
Diphenylol propane-Epichlorohydrin resins .....	0	1	DPR	
<i>Diphenyl oxide, see as diphenyl ether</i> .....	.....	.....		
Di-n-propylamine .....	7	.....	DNA	
Dipropylene glycol .....	40	.....	DPG	
<i>Dipropylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i> .....	.....	.....	DBG	PAG
Dipropylene glycol dibenzoate .....	34	.....	DGY	
<i>Dipropylene glycol methyl ether, see Poly (2-8)alkylene glycol monoalkyl(C1-C6) ether.</i> .....	.....	.....	DPY	PAG
Distillates, flashed feed stocks .....	33	.....	DFF	
Distillates, straight run .....	33	.....	DSR	
Dithiocarbamate ester (C7-C35) .....	34	.....	DHO	
Ditridecyl adipate .....	34	.....		
<i>Ditridecyl phthalate, see Dialkyl(C7-C13) phthalates</i> .....	.....	.....	DTP	DAH
<i>Diundecyl phthalate, see Dialkyl(C7-C13) phthalates</i> .....	.....	.....	DUP	DAH
Dodecane .....	31	1	DOC	ALJ
tert-Dodecanethiol .....	0	2	DDL	
Dodecanol .....	20	.....	DDN	LAL
Dodecene .....	30	.....	DOZ	DDC/DOD
2-Dodecenylsuccinic acid, dipotassium salt solution .....	34	.....	DSP	
Dodecyl alcohol ( <i>IMO cargo name</i> ), <i>see</i> Dodecanol .....	.....	.....	DDN	
Dodecyldiamine, Tetradecylamine mixture .....	7	.....	DTA	
Dodecylbenzene, <i>see Alkyl(C9+)-benzenes</i> .....	32	2	ddb	AKB
Dodecylbenzenesulfonic acid .....	0	1, 2	DSA	
Dodecyldimethylamine, Tetradecyldimethylamine mixture .....	7	.....	DOT	
Dodecyl diphenyl ether disulfonate solution .....	43	.....	DOS	
Dodecyl hydroxypropyl sulfide .....	0	1	DOH	
Dodecyl methacrylate .....	14	1	DDM	
Dodecyl-Octadecyl methacrylate mixture .....	14	1	DOM	
Dodecyl-Pentadecyl methacrylate mixtures .....	14	1	DDP	
Dodecyl phenol .....	21	.....	DOL	
Dodecyl xylene .....	32	2	DXY	
Drilling brine (containing Calcium, Potassium or Sodium salts) .....	43	.....		DRB
Drilling brine (containing Zinc salts) .....	43	.....	DZB	
Drilling mud (low toxicity) ( <i>if flammable or combustible</i> ) .....	33	.....	DRM	
Drilling mud (low toxicity) ( <i>if non-flammable or non-combustible</i> ) .....	43	.....	DRM	
Epichlorohydrin .....	17	1	EPC	
Epoxy resin .....	18	.....		EBC
<i>ETBE, see Ethyl tert-butyl ether</i> .....	.....	.....		
Ethane .....	31	1	ETH	
Ethanamine ( <i>monoethanolamine</i> ) .....	8	.....	MEA	
<i>2-Ethoxyethanol, see Ethylene glycol monoalkyl ethers</i> .....	.....	.....	EEO	EGC
2-Ethoxyethyl acetate .....	34	.....	EEA	
<i>Ethoxylated alcohols, C11-C15, see the alcohol poylethoxylates</i> .....	.....	.....		
Ethoxylated long chain (C16+) alkyloxyalkanamine .....	8	.....	ELA	
Ethoxy triglycerol .....	40	.....	ETG	
Ethyl acetate .....	34	.....	ETA	
Ethyl acetoacetate .....	34	.....	EAA	
Ethyl acrylate .....	14	1	EAC	
Ethyl alcohol .....	20	2	EAL	
Ethylamine .....	7	2	EAM	
Ethylamine solution .....	7	.....	EAN	
Ethyl amyl ketone .....	18	.....	EAK	
Ethylbenzene .....	32	.....	ETB	
Ethyl butanol .....	20	.....	EBT	
N-Ethyl-n-butylamine .....	7	.....	EBA	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Ethyl tert-butyl ether .....	41	2	EBE	
Ethyl butyrate .....	34	.....	EBR	
Ethyl chloride .....	36	.....	ECL	
Ethyl cyclohexane .....	31	1	ECY	
N-Ethylcyclohexylamine .....	7	.....	ECC	
Ethylene .....	30	.....	ETL	
Ethyleneamine EA 1302 .....	7	2	EMX	EDA
Ethylene carbonate .....	34	.....		
Ethylene chlorohydrin .....	20	.....	ECH	
Ethylene cyanohydrin .....	20	.....	ETC	
Ethylenediamine .....	7	2	EDA	EMX
Ethylenediaminetetraacetic acid, tetrasodium salt solution .....	43	.....	EDS	
Ethylene dibromide .....	36	.....	EDB	
Ethylene dichloride .....	36	.....	EDC	
Ethylene glycol .....	20	2	EGL	
Ethylene glycol acetate .....	34	.....	EGO	
Ethylene glycol butyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	.....	.....	EGM	EGC
Ethylene glycol tert-butyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	.....	.....	EGC	
Ethylene glycol butyl ether acetate .....	34	.....	EMA	
Ethylene glycol diacetate .....	34	.....	EGY	
Ethylene glycol dibutyl ether .....	40	.....	EGB	
Ethylene glycol ethyl ether, <i>see</i> Ethyl glycol monoalkyl ethers .....	.....	.....	EGE	EGC/EEO
Ethylene glycol ethyl ether acetate, <i>see</i> 2-Ethoxyethyl acetate .....	.....	.....	EGA	EEA
Ethylene glycol hexyl ether .....	40	.....	EGH	
Ethylene glycol isopropyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	.....	.....	EGI	EGC
Ethylene glycol methyl butyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40	.....	EMB	EGC
Ethylene glycol methyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	.....	.....	EME	EGC
Ethylene glycol methyl ether acetate .....	34	.....	EGT	
Ethylene glycol monoalkyl ethers .....	40	.....	EGC	
<i>Including:</i>				
Ethylene glycol butyl ether .....				
Ethylene glycol isobutyl ether .....				
Ethylene glycol tert-butyl ether .....				
Ethylene glycol ethyl ether .....				
Ethylene glycol hexyl ether .....				
Ethylene glycol methyl ether .....				
Ethylene glycol propyl ether .....				
Ethylene glycol isopropyl ether .....				
Ethylene glycol phenyl ether .....	40	.....	EPE	
Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture .....	40	.....	EDX	
Ethylene glycol propyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	.....	.....	EGP	EGC
Ethylene glycol iso-propyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	.....	.....	EGI	EGC
Ethylene oxide .....	0	1	EOX	
Ethylene oxide, Propylene oxide mixture .....	16	1	EPN	
Ethylene-Propylene copolymer .....	30	.....		
Ethylene-Vinyl acetate copolymer emulsion .....	43	.....		
Ethyl ether .....	41	.....	EET	
Ethyl-3-ethoxypropionate .....	34	.....	EEP	
2-Ethylhexaldehyde, <i>see</i> Octyl aldehydes .....	.....	.....	HA	OAL
2-Ethylhexanoic acid, <i>see</i> Octanoic acids .....	.....	.....	EHO	OAY
2-Ethylhexanol, <i>see</i> Octanol .....	.....	.....	EHX	OCX
2-Ethylhexyl acrylate .....	14	1	EAI	
2-Ethylhexylamine .....	7	.....	EHM	
Ethyl hexyl phthalate .....	34	.....	EHE	
Ethyl hexyl talate .....	34	.....	EHT	
2-Ethyl-1-(hydroxymethyl)propane-1,3-diol, C8-C10 ester .....	34	.....	EHD	
Ethylidene norbornene .....	30	2	ENB	
Ethyl methacrylate .....	14	1	ETM	
N-Ethylmethylallylamine .....	7	.....	EML	
2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline .....	9	.....	EEM	
o-Ethyl phenol .....	21	.....	EPL	
Ethyl propionate .....	34	.....	EPR	
2-Ethyl-3-propylacrolein .....	19	2	EPA	
Ethyl toluene .....	32	.....	ETE	
Fatty acids (saturated, C13+), <i>see</i> Fatty acids (saturated, C14+) .....	.....	.....		
Fatty acids (saturated, C14+) .....	34	.....	FAD	SRA
Ferric chloride solution .....	1	1	FCS	FCL
Ferric hydroxyethylmethylenediaminetriacetic acid, trisodium salt solution .....	43	2	FHX	STA
Ferric nitrate, Nitric acid solution .....	3	.....	FNN	
Fish solubles (water based fish meal extracts) .....	43	.....	FSO	
Fluorosilicic acid .....	1	1	FSJ	
Formaldehyde, Methanol mixtures .....	19	2	MTM	
Formaldehyde solution .....	19	2	FMS	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Formamide .....	10		FAM	
Formic acid .....	4	2	FMA	
Fructose solution .....	43			
Fumaric adduct of Rosin, water dispersion .....	43		FAR	
Furfural .....	19		FFA	
Furfuryl alcohol .....	20	2	FAL	
Gas oil, cracked .....	33		GOC	
Gasoline blending stock, alkylates .....	33		GAK	
Gasoline blending stock, reformates .....	33		GRF	
Gasolines:				
Automotive ( <i>not over 4.23 grams lead per gal.</i> ) .....	33		GAT	
Aviation ( <i>not over 4.86 grams lead per gal</i> ) .....	33		GAV	AVA
Casinghead ( <i>natural</i> ) .....	33		GCS	
Polymer .....	33		GPL	
Straight run .....	33		GSR	
Glucose solution .....	43		GLU	DTS
Glutaraldehyde solution .....	19		GTA	
Glycerine .....	20	2	GCR	
Glycerine, Dioxanedimethanol mixture .....	20		GDM	
Glycerol monooleate .....	20		GMO	
Glycerol polyalkoxylate .....	34			
Glycerol triacetate .....	34			
Glycidyl ester of C10 trialkyl acetic acid ( <i>IMO cargo name</i> ), <i>see</i> Glycidyl ester of tridecyl acetic acid .....	34		GLT	
Glycidyl ester of tridecylacetic acid .....	34		GLT	GLT
<i>Glycidyl ester of Versatic acid</i> , <i>see</i> Glycidyl ester of tridecylacetic acid .....	.....		GLT	
Glycine, sodium salt solution .....	7			
<i>Glycol diacetate</i> , <i>see</i> Ethylene glycol diacetate .....	.....		EGY	
Glycolic acid solution .....	4		GLC	
Glyoxal solutions .....	19		GOS	
Glyoxylic acid .....	4		GAC	
Glyphosate solution ( <i>not containing surfactant</i> ) ( <i>See also ROUNDUP</i> ) .....	7		GIO	
<i>Heptadecane</i> , <i>see</i> n-Alkanes (C10+) .....	.....		ALJ	
Heptane .....	31	1	HMX	ALK (HPI/HPT)
n-Heptanoic acid .....	4		HEP	
Heptanol .....	20		HTX	HTN
Heptene .....	30		HPX	HTE
Heptyl acetate .....	34		HPE	
<i>Herbicide (C15-H22-NO2-Cl)</i> , <i>see</i> Metolachlor .....	.....		MCO	
<i>Hexadecanol (cetyl alcohol)</i> , <i>see</i> Alcohols (C13+) .....	.....		ALY	
1-Hexadecynaphthalene, 1,4-bis(Hexadecyl)naphthalene mixture .....	32			
<i>Hexaethylene glycol</i> , <i>see</i> Polyethylene glycol .....	.....			
Hexamethylene glycol .....	20			
Hexamethylenediamine .....	7		HME	HMD/HMC
Hexamethylenediamine solution .....	7		HMC	HMD/HME
Hexamethylenediamine adipate solution .....	43		HAM	
Hexamethylene diisocyanate .....	12		HDI	
Hexamethylenetetramine .....	7		HMT	
Hexamethylenetetramine solutions .....	7		HTS	
Hexamethylenimine .....	7		HMI	
Hexane .....	31	2	HXS	ALK (IHA/HXA)
Hexanoic acid .....	4		HXO	
Hexanol .....	20		HXN	
Hexene .....	30		HEX	HXE/HXT/MPN/MTN
Hexyl acetate .....	34		HAE	HSA
Hexylene glycol .....	20		HGX	
HiTec 321 .....	7		HIT	
<i>Hog grease</i> , <i>see</i> Lard .....	.....			
Hydrochloric acid .....	1	1	HCL	
<i>Hydrofluorosilicic acid</i> , <i>see</i> Fluorosilicic acid .....	.....		HFS	FSJ
bis(Hydrogenated tallow alkyl)methyl amines .....	7		HTA	
Hydrogen peroxide solutions .....	0	1		HPN/HPS/HPO
2-Hydroxyethyl acrylate .....	14	2	HAI	
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution .....	43		HET	FHX
N,N-bis(2-Hydroxyethyl) oleamide .....	10		HOO	
2-Hydroxy-4-(methylthio)butanoic acid .....	4		HBA	
Hydroxy terminated polybutadiene ( <i>IMO cargo name</i> ), <i>see</i> Polybutadiene, hydroxy terminated.	20			
<i>alpha-hydro-omega-Hydroxytetradeca(oxytetramethylene)</i> , <i>see</i> Poly(tetramethylene ether) glycols (mw 950-1050).	.....			HTO
Icosa(oxypropane-2,3-diy) .....	20		IOP	
Isophorone .....	18	2	IPH	
Isophorone diamine .....	7		IP1	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Isophorone diisocyanate .....	12 .....		IPD	
Isoprene .....	30 .....		IPR	
Isoprene concentrate (Shell) .....	30 .....		ISC	
<i>Isopropylbenzene (cumene), see Propylbenzene</i> .....	.....			PBY
Jet fuels:				
JP-4 .....	33 .....		JPF	
JP-5 .....	33 .....		JPV	
JP-8 .....	33 .....		JPE	
Kaolin clay slurry .....	43 .....			
Kerosene .....	33 .....		KRS	
Ketone residue .....	18 .....		KTR	
Kraft black liquor .....	5 .....			KPL
Kraft pulping liquors ( <i>Black, Green, or White</i> ) .....	5 .....		KPL	
Lactic acid .....	0 .....	1, 2	LTA	
Lactonitrile solution .....	37 .....		LNI	
Lard .....	34 .....			
Latex (ammonia inhibited) .....	30 .....		LTX	
Latex, liquid synthetic .....	43 .....		LLS	LTX
Lauric acid .....	34 .....		LRA	
<i>Lauryl polyglucose, see Alkyl(C12 -C14) polyglucoside solution (55% or less).</i> .....	.....		LAP	AGM
Lecithin .....	34 .....		LEC	
Lignin liquor .....	43 .....			
<i>Lignin sulfonic acid, sodium salt solution, see Sodium lignosulfonate solution.</i> .....	.....			
<i>d-Limonene, see Dipentene</i> .....	.....			
Liquid Streptomyces solubles .....	43 .....			
Long chain alkaryl polycerol (C11-C20) .....	41 .....		LCP	
Long chain alkaryl sulfonic acid (C16-C60) .....	0 .....	1, 2	LCS	
Long chain alkylphenate/Phenol sulfide mixture .....	21 .....		LPS	
Long chain polyetheramine in alkyl(C2-C4)benzenes .....	7 .....		LCE	
L-Lysine solution .....	43 .....		LYS	
Magnesium chloride solution .....	0 .....	1, 2		
Magnesium hydroxide slurry .....	5 .....			
Magnesium long chain alkaryl sulfonate (C11-C50) .....	34 .....		MAS	MSE
Magnesium long chain alkyl phenate sulfide (C8-C20) .....	34 .....		MPS	
Magnesium long chain alkyl salicylate (C11+) .....	34 .....		MLS	
<i>Magnesium nonyl phenol sulfide, see Magnesium long chain alkyl phenate sulfide (C8-C20).</i> .....	.....		MPS	
<i>Magnesium sulfonate, see Magnesium long chain alkaryl sulfonate (C11-C50).</i> .....	.....		MSE	MAS
Maleic anhydride .....	11 .....		MLA	
Mercaptobenzothiazol, sodium salt solution ( <i>IMO cargo name</i> ), <i>see Sodium-2-mercaptobenzothiazol solution.</i> .....	5 .....		SMB	
Mesityl oxide .....	18 .....	2	MSO	
Metarni sodium solution .....	7 .....		MSS	SMD
Methacrylic acid .....	4 .....		MAD	
Methacrylic resin in Ethylene dichloride .....	14 .....	1	MRD	
Methacrylonitrile .....	15 .....	2	MET	
Methane .....	31 .....	1	MTH	
3-Methoxy-1-butanol .....	20 .....			
3-Methoxybutyl acetate .....	34 .....		MOA	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide ( <i>IMO cargo name</i> ), <i>see Metolachlor.</i> .....	34 .....		MCO	
1-Methoxy-2-propyl acetate .....	34 .....		MPO	
<i>Methoxy triglycol</i> .....	40 .....		MTG	
Methyl acetate .....	34 .....		MTT	
Methyl acetoacetate .....	34 .....		MAE	
Methyl acetylene, Propadiene mixture .....	30 .....		MAP	
Methyl acrylate .....	14 .....	1	MAM	
Methyl alcohol .....	20 .....	2	MAL	
Methylamine solutions .....	7 .....		MSZ	
Methyl amyl acetate .....	34 .....		MAC	
Methyl amyl alcohol .....	20 .....		MAA	MIC
Methyl amyl ketone .....	18 .....		MAK	
Methyl bromide .....	36 .....		MTB	
<i>Methyl butanol, see the amyl alcohols</i> .....	.....		AAI	
Methyl butenol .....	20 .....		MBL	
<i>Methyl butenes (tert-amylenes), see Pentene</i> .....	.....		PTX	
Methyl tert-butyl ether .....	41 .....	2	MBE	
Methyl butyl ketone .....	18 .....	2	MBK	
<i>Methylbutynol, see 2-Methyl-2-hydroxy-3-butyne</i> .....	20 .....		MBY	MHB
3-Methyl butyraldehyde .....	19 .....			

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Methyl butyrate .....	34 .....		MBU	
Methyl chloride .....	36 .....		MTC	
Methylcyclohexane .....	31 .....	1	MCY	
Methylcyclopentadiene dimer .....	30 .....		MCK	
Methyl diethanolamine .....	8 .....		MDE	MAB DCM
<i>Methylene chloride, see Dichloromethane</i> .....	.....			
2-Methyl-6-ethylaniline .....	9 .....		MEN	
Methyl ethyl ketone .....	18 .....	2	MEK	
2-Methyl-5-ethylpyridine .....	9 .....		MEP	
Methyl formate .....	34 .....		MFM	
N-Methylglucamine solution .....	43 .....		MGC	
Methyl heptyl ketone .....	18 .....		MHK	
2-Methyl-2-hydroxy-3-butyne .....	20 .....		MHB	
Methyl isoamyl ketone .....	18 .....			MAK
<i>Methyl isobutyl carbinol, see Methyl amyl alcohol</i> .....	.....		MIC	MAA
Methyl isobutyl ketone .....	18 .....	2	MIK	
Methyl methacrylate .....	14 .....	1	MMM	
3-Methyl-3-methoxybutanol .....	20 .....			
3-Methyl-3-methoxybutyl acetate .....	34 .....			
Methyl naphthalene .....	32 .....		MNA	
Methylolureas .....	19 .....		MUS	
2-Methyl pentane .....	31 .....	1	IHA	
<i>2-Methyl-1-pentene, see Hexene</i> .....	.....		MPN	HEX
<i>4-Methyl-1-pentene, see Hexene</i> .....	.....		MTN	HEX
Methyl tert-pentyl ether ( <i>IMO cargo name</i> ), <i>see tert-Amyl methyl ether</i> .....	41 .....			AYE
2-Methyl-1,3-propanediol .....	20 .....		MDL	
Methyl propyl ketone .....	18 .....		MKE	
Methylpyridine .....	9 .....			MPR/MPE/MPF
N-Methyl-2-pyrrolidone .....	9 .....	2	MPY	
Methyl salicylate .....	34 .....		MES	
alpha-Methylstyrene .....	30 .....		MSR	
3-(Methylthio)propionaldehyde .....	19 .....		MTP	
Metolachlor .....	34 .....		MCO	
Milk .....	43 .....			
Mineral spirits .....	33 .....		MNS	
Molasses .....	20 .....			
Molasses residue .....	0 .....	1		
Monochlorodifluoromethane .....	36 .....		MCF	
<i>Monoethanolamine, see Ethanolamine</i> .....	.....			
<i>Monoisopropanolamine, see Propanolamine</i> .....	.....			
Morpholine .....	7 .....	2	MPL	
Motor fuel antiknock compounds containing lead alkyls .....	0 .....	1	MFA	
<i>MTBE, see Methyl tert-butyl ether</i> .....	.....			MBE
Myrcene .....	30 .....		MRE	
Naphtha:				
Aromatic .....	33 .....			
Coal tar solvent .....	33 .....		NCT	
Heavy .....	33 .....			
Paraffinic .....	33 .....			
Petroleum .....	33 .....		PTN	
Solvent .....	33 .....		NSV	
Stoddard solvent .....	33 .....		NSS	
Varnish Makers' and Painters' .....	33 .....		NVM	
Naphthalene .....	32 .....		NTM	
Naphthalene still residue .....	32 .....	2	NSR	
Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution ..	0 .....	1	NFS	
Naphthalene sulfonic acid, sodium salt solution .....	34 .....		NSA	
Naphthenic acid .....	4 .....		NTI	
Naphthenic acid, sodium salt solution .....	43 .....		NTS	
Neodecanoic acid .....	4 .....		NEA	
NIAX POLYOL APP 240C .....	0 .....	1, 2	NXP	
Nitrating acid .....	0 .....	1	NIA	
Nitric acid (70% or less) .....	3 .....		NCD	
Nitric acid (greater than 70%) .....	0 .....	1	NAC	
Nitrobenzene .....	42 .....		NTB	CNO
<i>o-Nitrochlorobenzene, see Chloronitrobenzene</i> .....	.....			
Nitroethane .....	42 .....		NTE	
Nitroethane, 1-Nitropropane mixtures .....	42 .....		NNO	
<i>o-Nitrophenol</i> .....	0 .....	1, 2	NTP	NIP/NPH
Nitropropane .....	42 .....		NPM	NPN/NPP
Nitropropane, Nitroethane mixture .....	42 .....			NNO (NNM/NNL)
Nitrotoluene .....	42 .....		NIT	NIE/NTT/NTR
Nonane .....	31 .....	1	NAX	ALK (NAN)

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Nonanoic acid .....	4 .....		NNA	NAI/NIN
Nonanoic, Tridecanoic acid mixture .....	4 .....		NAT	
Nonene .....	30 .....		NOO	NON/NNE
Nonyl acetate .....	34 .....		NAE	
Nonyl alcohol .....	20 .....	2	NNS	NNI/NNN/DBC AKB
<i>Nonylbenzene, see Alkyl(C9+)-benzenes</i> .....	.....			
Nonyl methacrylate .....	14 .....	1	NMA	
Nonyl phenol .....	21 .....		NNP	
Nonyl phenol poly(4+)ethoxylates .....	40 .....		NPE	
<i>Nonyl phenol sulfide solution, see Alkyl phenol sulfide (C8-C40)</i> .....	.....			AKS/NPS
Noxious Liquid Substance, n.o.s. (NLS's) .....	0 .....	1		
<i>1-Octadecene, see the olefin or alpha-olefin entries</i> .....	.....			
Octadecenoamide .....	10 .....		ODD	
<i>Octadecenol (oleyl alcohol), see Alcohols (C13+)</i> .....	.....			ALY
Octane .....	31 .....	1	OAX	ALK (IOO/OAN)
Octanoic acid .....	4 .....		OAY	OAA/EHO
Octanol .....	20 .....	2	OCX	IOA/OTA/EHX
Octene .....	30 .....		OTX	OTE
n-Octyl acetate .....	34 .....		OAF	OAE
<i>Octyl alcohol, see Octanol</i> .....	.....			OCX
Octyl aldehyde .....	19 .....		OAL	IOC/OLX/EHA
Octyl decyl adipate .....	34 .....		ODA	
<i>Octyl nitrate, see Alkyl(C7-C9) nitrates</i> .....	.....		ONE	AKN
Octyl phenol .....	21 .....			
<i>Octyl phthalate, see Diethyl phthalate</i> .....	.....			DOP
Oil, edible:				
Beechnut .....	34 .....		OBN	VEO
Castor .....	34 .....		OCA	VEO
Cocoa butter .....	34 .....		OCB	VEO
Coconut .....	34 .....	2	OCC	VEO
Cod liver .....	34 .....		OCL	AFN
Corn .....	34 .....		OCO	VEO
Cottonseed .....	34 .....		OCS	VEO
Fish .....	34 .....	2	OFS	AFN
Groundnut .....	34 .....		OGN	VEO
Hazelnut .....	34 .....		OHN	VEO
Lard .....	34 .....		OLD	AFN
Maize .....	34 .....			VEO (OCO)
Nutmeg butter .....	34 .....		ONB	VEO
Olive .....	34 .....		OOL	VEO
Palm .....	34 .....	2	OPM	VEO
Palm kernel .....	34 .....		OPO	VEO
Peanut .....	34 .....		OPN	VEO
Poppy .....	34 .....		OPY	VEO
Poppy seed .....	34 .....			VEO
Raisin seed .....	34 .....		ORA	VEO
Rapeseed .....	34 .....		ORP	VEO
Rice bran .....	34 .....		ORB	VEO
Safflower .....	34 .....		OSF	VEO
Salad .....	34 .....		OSL	VEO
Sesame .....	34 .....		OSS	VEO
Soya bean .....	34 .....		OSB	VEO
Sunflower seed .....	34 .....		OSN	VEO
Tucum .....	34 .....		OTC	VEO
Vegetable .....	34 .....		OVG	VEO
Walnut .....	34 .....		OWN	VEO
Oil, fuel:				
No. 1 .....	33 .....		OON	
No. 1-D .....	33 .....		OOD	
No. 2 .....	33 .....		OTW	
No. 2-D .....	33 .....		OTD	
No. 4 .....	33 .....		OFR	
No. 5 .....	33 .....		OFV	
No. 6 .....	33 .....		OSX	
Oil, misc:				
Aliphatic .....	33 .....			
Animal .....	34 .....		OMA	AFN
Aromatic .....	33 .....			
Clarified .....	33 .....		OCF	
Coal .....	33 .....			
Coconut oil, fatty acid methyl ester .....	34 .....		OCM	
Cotton seed oil, fatty acid .....	34 .....		CFY	
Crude .....	33 .....		OIL	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Diesel .....	33 .....		ODS	
Gas, high pour .....	33 .....			
Gas, low pour .....	33 .....			
Gas, low sulfur .....	33 .....			
Heartcut distillate .....	33 .....			
Lanolin .....	34 .....		OLL	AFN
Linseed .....	33 .....		OLS	
Lubricating .....	33 .....		OLB	
Mineral .....	33 .....		OMN	
Mineral seal .....	33 .....		OMS	
Motor .....	33 .....		OMT	
Neatsfoot .....	33 .....		ONF	AFN
Oiticica .....	34 .....		OOI	
Palm oil, fatty acid methyl ester .....	34 .....		OPE	
Penetrating .....	33 .....		OPT	
Perilla .....	34 .....		OPR	
Pilchard .....	34 .....		OPL	AFN
Pine .....	33 .....		OPI	PNL
Residual .....	33 .....			
Road .....	33 .....		ORD	
Rosin .....	33 .....		ORN	
Seal .....	34 .....			
Soapstock .....	34 .....		OIS	
Soybean (epoxidized) .....	34 .....			EVO
Sperm .....	33 .....		OSP	AFN
Spindle .....	33 .....		OSD	
Tall .....	34 .....		OTL	
Tall, fatty acid .....	34 .....	2	TOF	
Transformer .....	33 .....		OTF	
Tung .....	34 .....		OTG	
Turbine .....	33 .....		OTB	
Wood .....	34 .....			
Olefin/Akyl ester copolymer (molecular weight 2000+) .....	34 .....		OCP	
Olefin mixtures .....	30 .....			OFX/OFY
alpha-Olefins (C6-C18) mixtures .....	30 .....		OAM	
Olefins (C13+) .....	30 .....			
Olein acid .....	34 .....		OLA	
Oleum .....	0 .....	1, 2	OLM	
Oleyl alcohol ( <i>octadecenol</i> ), see Alcohols (C13+) .....				ALY
Oleylamine .....	7 .....		OLY	
ORIMULSION, see Asphalt emulsion .....				ASQ
Oxalkylated alkyl phenol formaldehyde .....	33 .....			
Palm kernel acid oil .....	34 .....		PNO	
Palm kernel acid oil, methyl ester .....	34 .....		PNF	
Palm kernel oil, fatty acid, see Palm kernel acid oil .....				PNO
Palm kernel oil, fatty acid methyl ester, see Palm kernel acid oil, methyl ester.				PNF
Palm stearin .....	34 .....		PMS	
n-Paraffins (C10-C20), see n-Alkanes (C10+) .....			PFN	ALJ
Paraldehyde .....	19 .....		PDH	
Paraldehyde-Ammonia reaction product .....	9 .....		PRB	
Pentachloroethane .....	36 .....		PCE	
Pentacosa(oxypropane-2,3-diy)s .....	20 .....		POY	
Pentadecanol, see Alcohols (C13+) .....			PDC	ALY
1,3-Pentadiene .....	30 .....		PDE	PDN
Pentaethylene glycol, see Polyethylene glycols .....				PAG
Pentaethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.				
Pentaethylenehexamine .....	7 .....		PEN	
Pentaethylenehexamine, Tetraethylpentamine mixture .....	7 .....		PEP	
Pentane .....	31 .....	1	PTY	IPT/PTA
Pentanoic acid .....	4 .....		POC	
n-Pentanoic acid, 2-Methyl butrylic acid mixture .....	4 .....		POJ	POC
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.				
Pentene .....	30 .....		PTX	PTE
Pentyl aldehyde .....	19 .....			
n-Pentyl propionate .....	34 .....		PPE	
Perchloroethylene .....	36 .....	2	PER	TTE
Petrolatum .....	33 .....		PTL	
Phenol .....	21 .....		PHN	
1-Phenyl-1-xylyl ethane .....	32 .....		PXE	
Phosphate esters, alkyl(C12-C14)amine .....	7 .....		PEA	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Phosphoric acid .....	1	1	PAC	
Phosphorus .....	0	1	PPW	PPR/PPB
Phthalate based polyester polyol .....	0	1, 2	PBE	
Phthalic anhydride .....	11	.....	PAN	
alpha-Pinene .....	30	.....	PIO	PIN
beta-Pinene .....	30	.....	PIP	PIN
Pine oil .....	33	.....	PNL	OPI
Polyalkyl(C18-C22) acrylate in Xylene .....	14	1	PIX	
Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....	.....	.....	PGB	PAG
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....	40	.....	PAG	
<i>Including:</i>				
<i>Diethylene glycol butyl ether</i>				
<i>Diethylene glycol ethyl ether</i>				
<i>Diethylene glycol n-hexyl ether</i>				
<i>Diethylene glycol methyl ether</i>				
<i>Diethylene glycol n-propyl ether</i>				
<i>Dipropylene glycol butyl ether</i>				
<i>Dipropylene glycol methyl ether</i>				
<i>Polyalkylene glycol butyl ether</i>				
<i>Polyethylene glycol monoalkyl ether</i>				
<i>Polypropylene glycol methyl ether</i>				
<i>Tetraethylene glycol methyl ether</i>				
<i>Triethylene glycol butyl ether</i>				
<i>Triethylene glycol ethyl ether</i>				
<i>Triethylene glycol methyl ether</i>				
<i>Tripropylene glycol methyl ether</i>				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate .....	34	.....	PAF	
<i>Including:</i>				
<i>Diethylene glycol butyl ether acetate</i>				
<i>Diethylene glycol ethyl ether acetate</i>				
<i>Diethylene glycol methyl ether acetate</i>				
Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures .....	40	.....	PPX	
Polyalkylene oxide polyol .....	20	.....	PAO	
Polyalkyl methacrylate (C1-C20) .....	.....	.....		
Polyalkyl(C10-C20)methacrylate .....	14	1	PMT	
Polyalkyl(C10-C18)methacrylate/Ethylene propylene copolymer mixture .....	14	1	PEM	
Polyaluminum chloride solution .....	1	1		
Polybutadiene, hydroxyl terminated .....	20	.....		
Polybutene .....	30	.....	PLB	
Polybutenyl succinimide .....	10	.....	PBS	
Poly(2+)cyclic aromatics .....	32	.....	PCA	
Polydimethylsiloxane .....	34	.....		
Polyether (molecular weight 2000+) .....	41	.....	PYR	
Polyethylene glycol .....	40	.....		
Polyethylene glycol dimethyl ether .....	40	.....		
Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....	.....	.....	PEE	PAG
Polyethylene polyamines .....	7	2	PEB	
Polyferric sulfate solution .....	34	.....	PSS	
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide). .....	20	2	PGT	
Polyglycerol .....	20	.....		GCR
Polyisobutamine in aliphatic (C10-C14) solvent .....	7	.....	PIB	
Polyisobutetyl anhydride adduct .....	11	.....		
Poly(4+)-isobutylene .....	30	.....		
Poly(methylene polyphenyl isocyanate) .....	12	.....	PPI	
Poly(methylsiloxyane) .....	34	.....		
Polyolefin (molecular weight 300+) .....	30	.....		
Polyolefin amide alkeneamine (C17+) .....	33	.....	POH	
Polyolefin amide alkeneamine (C28+) .....	33	.....	POD	
Polyolefin amide alkeneamine borate (C28-C250) .....	33	.....	PAB	
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture .....	7	.....		
Polyolefin amide alkeneamine polyol .....	20	.....	PAP	
Poly(C17+)-olefin amine .....	7	.....	POG	
Polyolefinamine (C28-C250) .....	33	.....	POM	
Polyolefinamine in alkyl(C2-C4)benzenes .....	32	.....	POF	
Polyolefin aminoester salt .....	34	.....	PAE	
Polyolefin anhydride .....	11	.....	PAR	
Polyolefin ester (C28-C250) .....	34	.....	POS	
Polyolefin phenolic amine (C28-C250) .....	7	.....	PPH	
Polyolefin phosphorosulfide, barium derivative (C28-C250) .....	34	.....	PPS	
Poly(20)oxyethylene sorbitan monooleate .....	34	.....	PSM	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Poly(5+)propylene .....	30 .....		PLQ	PLP
Polypropylene glycol .....	40 .....		PGC	
<i>Polypropylene glycol methyl ether, see Propylene glycol monoalkyl ether ..</i>	.....		PGM	PGE
Polysiloxane .....	34 .....			DMP
Poly(tetramethylene ether) glycols (mw 950-1050) ( <i>alpha</i> -hydro- <i>omega</i> -Hydroxytetradeca(oxytetramethylene)).	40 .....		HTO	
Polytetramethylene ether glycol .....	40 .....			
Potassium chloride solution .....	43 .....		PCS	(DRB)
Potassium formate solution .....	34 .....		PFR	
Potassium hydroxide solution ( <i>IMO cargo name</i> ), <i>see Caustic potash solution.</i>	5 .....	2		CPS
Potassium oleate .....	34 .....		POE	
Potassium salt of polyolefin acid .....	34 .....			
Potassium thiosulfate solution .....	43 .....		PTF	
Propane .....	31 .....	1	PRP	
Propanolamine .....	8 .....		PAX	MPA/PLA
Propionaldehyde .....	19 .....		PAD	
Propionic acid .....	4 .....		PNA	
Propionic anhydride .....	11 .....		PAH	
Propionitrile .....	37 .....		PCN	
<i>n</i> -Propoxypropanol, <i>see Propylene glycol monoalkyl ether ..</i>	.....		PXP	PGE
Propyl acetate .....	34 .....			IAC/PAT
Propyl alcohol .....	20 .....	2		IPA/PAL
Propylamine .....	7 .....			IPP/PRA
iso-Propylamine solution .....	7 .....			IPO/IPQ
Propylbenzene .....	32 .....	2	PBY	PBZ/CUM
n-Propyl chloride .....	36 .....		PRC	
iso-Propylcyclohexane .....	31 .....	1	IPX	
Propylene .....	30 .....		PPL	
Propylene-butylene copolymer .....	30 .....		PBP	
Propylene carbonate .....	34 .....			
Propylene dimer .....	30 .....		PDR	
Propylene glycol .....	20 .....	2	PPG	
<i>Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether ..</i>	.....		PGD	PGE
<i>Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether ..</i>	.....		PGY	PGE
<i>Propylene glycol methyl ether, see Propylene glycol monoalkyl ether ..</i>	.....		PME	PGE
Propylene glycol methyl ether acetate .....	34 .....		PGN	
Propylene glycol monoalkyl ether .....	40 .....		PGE	
<i>Including:</i>				
<i>n</i> -Propoxypropanol .....				
<i>Propylene glycol n-butyl ether .....</i>				
<i>Propylene glycol ethyl ether .....</i>				
<i>Propylene glycol methyl ether .....</i>				
<i>Propylene glycol propyl ether .....</i>				
Propylene glycol phenyl ether .....	40 .....		PGP	
<i>Propylene glycol propyl ether, see Propylene glycol monoalkyl ether ..</i>	.....			PGE
Propylene oxide .....	16 .....	1	POX	
Propylene, Propane, MAPP gas mixture .....	30 .....	2	PPM	
Propylene tetramer .....	30 .....		PTT	
Propylene trimer .....	30 .....		PTR	
Propyl ether .....	41 .....			IPE/PRE
<i>Pseudocumene, see Trimethylbenzene .....</i>	.....			TME/TRE
Pyridine .....	9 .....		PRD	
<i>Pyridine bases, see Paraldehyde-Ammonia reaction product .....</i>	.....			PRB
Roehm monomer 6615 .....	14 .....	1	RMN	
Rosin oil .....	33 .....		ORN	
Rosin soap (disproportionated) solution .....	43 .....		RSP	
ROUNDUP (See also Glyphosate solution) .....	7 .....		RUP	
<i>Rum, see Alcoholic beverages .....</i>	.....			
SAP 7001 .....	0 .....	1	SON	
Sewage sludge .....	43 .....			
Silica slurry .....	43 .....			
Sludge, treated .....	43 .....			
Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide)	34 .....	2	SAO	SAP
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)	5 .....		SAP	SAO
Sodium acetate solution .....	34 .....		SAN	AKP
Sodium alkyl sulfonate solution .....	43 .....		SSU	
Sodium alkyl (C14-C17) sulfonates 60-65% solution ( <i>IMO cargo name</i> ), <i>see Alkane (C14-C17) sulfonic acid, sodium salt solution.</i>	34 .....		AKA	
Sodium aluminate solution .....	5 .....		SAU	
Sodium aluminosilicate slurry .....	34 .....			
Sodium benzoate solution .....	34 .....		SBN	
Sodium borohydride, Sodium hydroxide solution .....	5 .....		SBX	SBH/SBI

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Sodium carbonate solutions .....	5 .....		SCE	
Sodium chlorate solution .....	0 .....	1, 2	SDD	SDC
Sodium cyanide solution .....	5 .....		SCS	SCN
Sodium dichromate solution .....	0 .....	1, 2	SDL	SCR
<i>Sodium dimethyl naphthalene sulfonate solution, see Dimethyl naphthalene sulfonic acid, sodium salt solution.</i>	.....			DNS
Sodium hydrogen sulfide, Sodium carbonate solution .....	0 .....	1, 2	SSS	
Sodium hydrogen sulfite solution .....	43 .....		SHX	
Sodium hydrosulfide solution .....	5 .....	2	SHR	
Sodium hydrosulfide, Ammonium sulfide solution .....	5 .....	2	SSA	
Sodium hydroxide solution ( <i>IMO cargo name</i> ), <i>see Caustic soda solution</i>	5 .....	2		CSS
Sodium hypochlorite solution .....	5 .....			SHP/SHQ/(SHC)
Sodium lignosulfonate solution, <i>see also Lignin liquor</i> .....	43 .....			
Sodium long chain alkyl salicylate (C13+) .....	34 .....		SLS	
Sodium 2-mercaptopbenzothiazol solution .....	5 .....		SMB	
<i>Sodium N-methyl dithio carbamate solution, see Metam sodium solution ...</i>	.....			MSS
<i>Sodium naphthalene sulfonate solution, see Naphthalene sulfonic acid, sodium salt solution.</i>	.....			NSA
<i>Sodium naphthenate solution, see Naphthenic acid, sodium salt solution ..</i>	.....			NTS
Sodium nitrite solution .....	5 .....		SNI	SNT
Sodium petroleum sulfonate .....	33 .....		SPS	
Sodium polyacrylate solution .....	43 .....	2		
<i>Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.</i>	.....		STA	FHX
Sodium silicate solution .....	43 .....	2	SSN	SSC
Sodium sulfide, Hydrosulfide solution .....	0 .....	1, 2		SSH/SSI/SSJ
Sodium sulfide solution .....	43 .....		SDR	
Sodium sulfite solution .....	43 .....		SUP	SUS
Sodium tartrates, Sodium succinates solution .....	43 .....		STM	
Sodium thiocyanate solution .....	0 .....	1, 2	STS	SCY
Sorbitol solutions .....	20 .....			SBT
Soyabean oil (epoxidized) .....	34 .....			OSC/EVO
<i>Stearic acid, see Fatty acids (saturated, C14+)</i> .....	.....		SRA	FAD
Stearlyl alcohol .....	20 .....			
Styrene .....	30 .....		STY	STX
Styrene monomer .....	30 .....		STY	STX
Sulfohydrocarbon (C3-C88) .....	33 .....		SFO	
Sulfohydrocarbon, long chain (C18+) alkylamine mixture .....	7 .....		SFX	
Sulfolane .....	39 .....		SFL	
Sulfonated polyacrylate solutions .....	43 .....	2		
Sulfur .....	0 .....	1		SXX
Sulfuric acid .....	2 .....	2	SFA	
Sulfuric acid, spent .....	2 .....			SAC
Sulfurized fat (C14-C20) .....	33 .....		SFT	
Sulfurized polyolefinamide alkene(C28-C250) amine .....	33 .....		SPO	
Tall oil .....	34 .....			OTL
Tall oil fatty acid ( <i>Resin acids less than 20%</i> ) .....	34 .....	2		TOF
Tall oil fatty acid, barium salt .....	0 .....	1, 2		TOB
Tall oil soap (disproportionated) solution .....	43 .....			TOS
Tallow .....	34 .....	2		TLO
Tallow fatty acid .....	34 .....	2		TFD
<i>Tallow fatty alcohol, see Alcohols (C13+)</i> .....	.....		TFA	ALY
Tallow nitrile .....	37 .....			TAN
<i>TAME, see tert-Amyl methyl ether</i> .....	.....			AYE
1,1,2,2-Tetrachloroethane .....	36 .....		TEC	
<i>Tetrachloroethylene, see Perchloroethylene</i> .....	.....		TTE	PER
<i>Tetradecanol, see Alcohols (C13+)</i> .....	.....		TTN	ALY
<i>Tetradecene, see the olefins entries</i> .....	.....		TTD	
Tetradecylbenzene, <i>see Alkyl(C9+)</i> benzenes .....	32 .....		TDB	AKB
Tetraethylene glycol .....	40 .....		TTG	
<i>Tetraethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	.....			PAG
Tetraethylenepentamine .....	7 .....	2	TTP	
Tetrahydrofuran .....	41 .....		THF	
Tetrahydronaphthalene .....	32 .....		THN	
<i>1,2,3,5-Tetramethylbenzene, see Tetramethylbenzene</i> .....	.....		TTB	TTC
Tetramethylbenzene .....	32 .....		TTC	TTB
<i>Tetrapropylbenzene, see Alkyl(C9+)</i> benzenes .....	.....			AKB
<i>Tetrasodium salt of EDTA solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution.</i>	.....			EDS
Titanium dioxide slurry .....	43 .....		TDS	
Titanium tetrachloride .....	2 .....		TTT	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Toluene .....	32		TOL	
Toluenediamine .....	9		TDA	
Toluene diisocyanate .....	12		TDI	
o-Toluidine .....	9		TLI	
<i>Triarylphosphate, see Trisopropylated phenyl phosphates</i> .....			TRA	TPL
Tributyl phosphate .....	34		TBP	
1,2,4-Trichlorobenzene .....	36		TCB	
1,1,1-Trichlorethane .....	36	2	TCE	
1,1,2-Trichlorethane .....	36		TCM	
Trichloroethylene .....	36	2	TCL	
1,2,3-Trichloropropane .....	36	2	TCN	
1,1,2-Trichloro-1,2,2-trifluoroethane .....	36		TF	
Tricresyl phosphate .....	34		TCO/TCP	
<i>Tridecane, see n-Alkanes (C10+)</i> .....			TRD	ALJ
Tridecanoic acid .....	34		TDO	
<i>Tridecanol, see Alcohols (C13+)</i> .....			TDN	ALY
<i>Tridecene, see Olefins (C13+)</i> .....			TDC	
Tridecyl acetate .....	34		TAE	
Tridecylbenzene, <i>see Alkyl(C9+)</i> benzenes .....	32	2	TRB	AKB
Triethanolamine .....	8	2	TEA	
Triethylamine .....	7		TEN	
Triethylbenzene .....	32	2	TEB	
Triethylene glycol .....	40		TEG	
<i>Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i> .....				PAG
Triethylene glycol butyl ether mixture .....	40			
Triethylene glycol dibenzoate .....	34		TGB	
Triethylene glycol di-(2-ethylbutyrate) .....	34		TGD	
Triethylene glycol ether mixture .....	40			
<i>Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i> .....			TGE	PAG
<i>Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i> .....			TGY	PAG
Triethylenetetramine .....	7	2	TET	
Triethyl phosphate .....	34		TPS	
Triethyl phosphite .....	34	2	TPI	
Triisobutylene .....	30		TIB	
Triisooctyl trimellitate .....	34			
Triisopropanolamine .....	8		TIP	
<i>Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.</i> .....				DTI
Trisopropylated phenyl phosphates .....	34		TPL	
Trimethylacetic acid .....	4		TAA	
Trimethylamine solution .....	7		TMT	
Trimethylbenzene .....	32	2	TRE	TME/TMB/TMD
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-) .....	7		THA	
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-) .....	12		THI	
<i>Trimethyl nonanol, see Dodecanol</i> .....				DDN
Trimethylol propane polyethoxylate .....	20		TPR	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate .....	34		TMQ	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate .....	34		TMP	
2,2,4-Trimethyl-3-pentanol-1-isobutyrate .....	34			
Trimethyl phosphite .....	34	2	TPP	
1,3,5-Trioxane .....	41	2	TRO	
Triphenylborane, Caustic soda solution .....	5		TPB	
<i>Tripropylene, see Propylene trimer</i> .....				PTR
Tripropylene glycol .....	40		TGC	
<i>Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i> .....			TGM	PAG
Trisodium nitrilotriacetate .....	34			
Trisodium phosphate solution .....	5		TSP	
<i>Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.</i> .....				HET
Trixylol phosphate ( <i>IMO cargo name</i> ), <i>see</i> Trixylol phosphate .....	34			TRP
Trixylol phosphate .....	34		TRP	
Turpentine .....	30		TPT	
Ugarsol CR Solvent 302 SG .....	8		UCS	
Undecanoic acid .....	4		UDA	
<i>Undecanol, see Undecyl alcohol</i> .....				UND
Undecene .....	30		UDC	
Undecyl alcohol .....	20		UND	
Undecylbenzene, <i>see Alkyl(C9+)</i> benzenes .....			UDB	AKB

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution.	0	1	UPX	
Urea, Ammonium nitrate solution (containing Ammonia) .....	6	.....	UAS	
Urea, Ammonium nitrate solution (not containing Ammonia) .....	43	.....	UAT	ANU
Urea, Ammonium phosphate solution .....	43	.....	UAP	
Urea solution .....	43	.....		URE
Valeraldehyde .....	19	.....	VAK	IVA/VAL
Vanillin black liquor .....	5	.....	VBL	
Vegetable oils, n.o.s. ....	34	.....	VEO	
<i>Including:</i>				
<i>Beechnut oil</i>				
<i>Castor oil</i>				
<i>Cocoa butter</i>				
<i>Coconut oil</i>				
<i>Corn oil</i>				
<i>Cottonseed oil</i>				
<i>Groundnut oil</i>				
<i>Hazelnut oil</i>				
<i>Linseed oil</i>				
<i>Nutmeg butter</i>				
<i>Oiticica oil</i>				
<i>Olive oil</i>				
<i>Palm kernel oil</i>				
<i>Palm oil</i>				
<i>Peel oil (oranges and lemons)</i>				
<i>Perilla oil</i>				
<i>Poppy oil</i>				
<i>Raisin seed oil</i>				
<i>Rapeseed oil</i>				
<i>Rice bran oil</i>				
<i>Safflower oil</i>				
<i>Salad oil</i>				
<i>Sesame oil</i>				
<i>Soya bean oil</i>				
<i>Sunflower seed oil</i>				
<i>Tucum oil</i>				
<i>Tung oil</i>				
<i>Walnut oil</i>				
Vegetable acid oils and distillates, n.o.s. ....	34	.....	VAO	
<i>Including:</i>				
<i>Corn acid oil</i>				
<i>Cottonseed acid oil</i>				
<i>Dark mixed acid oil</i>				
<i>Groundnut acid oil</i>				
<i>Mixed acid oil</i>				
<i>Mixed general acid oil</i>				
<i>Mixed hard acid oil</i>				
<i>Mixed soft acid oil</i>				
<i>Rapeseed acid oil</i>				
<i>Safflower acid oil</i>				
<i>Soya acid oil</i>				
<i>Sunflower seed acid oil</i>				
Vegetable protein solution .....	43	.....		
Vinyl acetate .....	13	1	VAM	
Vinyl chloride .....	35	.....	VCM	
Vinyl ethyl ether .....	13	1	VEE	
Vinylidene chloride .....	35	.....	VCI	
Vinyl neodecanate .....	13	1	VND	
Vinyltoluene .....	13	1	VNT	
Water .....	43	.....		
Waxes: .....				
<i>Candelilla</i>	34	.....	WAX	
<i>Carrauba</i>	34	.....	WDC	
<i>Paraffin</i>	31	1	WCA	
<i>Petroleum</i>	33	.....	WPF	
Wine, see Alcoholic beverages .....				
White spirit (low (15-20%) aromatic) .....	33	.....	WSL	WSP
Xylene .....	32	.....	XLX	XLM/XLO/XLP
Xylenes, Ethylbenzene mixture .....	32	.....	XEB	
Xylenols .....	21	.....	XYL	
Zinc alkaryl dithiophosphate (C7-C16) .....	34	.....	ZAD	
Zinc alkenyl carboxamide .....	10	.....	ZAA	
Zinc alkyl dithiophosphate (C3-C14) .....	34	.....	ZAP	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Zinc bromide, Calcium bromide solution, see Drilling brine (containing Zinc salts).</i>	.....	.....		DZB

1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-ENG-5), Attn: Hazardous Materials Division, U.S. Coast Guard Stop 7509, 2703 Martin Luther King Jr. Avenue SE., Washington, DC 20593-7509. Telephone 202-372-1420 or email [hazmatstandards@uscg.mil](mailto:hazmatstandards@uscg.mil).

2. See Appendix I—Exceptions to the Chart.

[USCG 2000-7079, 65 FR 67162, Nov. 8, 2000, as amended by USCG-2006-25697, 71 FR 55746, Sept. 25, 2006; USCG-2008-0906, 73 FR 56510, Sept. 29, 2008; USCG-2009-0702, 74 FR 49236, Sept. 25, 2009; USCG-2010-0759, 75 FR 60003, Sept. 29, 2010; USCG-2012-0832, 77 FR 59783, Oct. 1, 2012; USCG-2013-0671, 78 FR 60155, Sept. 30, 2013]

EFFECTIVE DATE NOTE: By USCG-2013-0423, 78 FR 50162, Aug. 16, 2013, Table I to part 150 was revised, effective Sept. 16, 2013. At 78 FR 56837, Sept. 16, 2013, the effectiveness was delayed until Jan. 16, 2014. For the convenience of the user, the revised text is set forth as follows:

**TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES**

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Acetaldehyde .....	19	.....	AAD	
Acetic acid .....	4	2	AAC	
Acetic anhydride .....	11	2	ACA	
Acetochlor .....	10	.....	ACG	
Acetone .....	18	2	ACT	
Acetone cyanohydrin .....	0	1, 2	ACY	
Acetonitrile .....	37	.....	ATN	
Acetonitrile (low purity grade)* .....	37	3	AIL	
Acetophenone .....	18	.....	ACP	
<i>Acid oil mixture from soybean, corn (maize) and sunflower oil refining, see Oil, misc: Acid mixture from soybean, corn (maize) and sunflower oil refining*.</i>	34	3		AOM.
Acrolein .....	19	2	ARL	
Acrylamide solution (50% or less)* .....	10	3	AAM	AAO.
Acrylic acid .....	4	2	ACR	
Acrylic acid/ethanesulfonic acid copolymer with phosphonate groups, sodium salt solution*.	30	3	APG	
Acrylonitrile .....	15	2	ACN	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol .....	20	.....	ALE	
Adiponitrile .....	37	.....	ADN	
Alachlor technical (90% or more)* .....	33	3	ALH	ALI.
Alcohol (C12-C13, branched and linear) poly (4-8) propoxy sulfates, sodium salt 25-30% solution*.	41	3	ABL	
Alcohol (C9-C11) poly (2.5-9) ethoxylates* .....	40	3	AET	ALY/APV/APW.
Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates* .....	40	3	AEA	AEB.
Alcohol (C6-C17) (secondary) poly (7-12) ethoxylates* .....	40	3	AEB	AEA.
Alcohol (C12-C16) poly (1-6) ethoxylates* .....	40	3	AED	AET/ALY/APW.
Alcohol (C12-C16) poly (7-19) ethoxylates* .....	40	3	APV	AET/ALY/APV.
Alcohol (C12-C16) poly (20+) ethoxylates* .....	40	3	APW	AET/ALY.
Alcoholic beverages, n.o.s.* .....	20	3	ABV	
Alcohols (C13+)	20	.....	ALY	ASY/AHK.
<i>Including:</i>				
<i>Oleyl alcohol (octadecenol).</i>				
<i>Pentadecanol.</i>				
<i>Tallow alcohol.</i>				
<i>Tetradecanol.</i>				
<i>Tridecanol.</i>				
Alcohol polyethoxylates .....	20	.....		AEA/AEB/AED/AET/APV/APW.
Alcohol polyethoxylates, secondary .....	20	.....		AEA/AEB.
Alcohol (C12-C15) poly ( . . . ) ethoxylate, see Alcohol (C12-C16) poly ( . . . ) ethoxylate.	20	.....		
Alcohols (C12+), primary, linear* .....	20	3	ASY	ALR/AYK/AYL.
Alcohols (C8-C11), primary, linear and essentially linear .....	20	.....	ALR	AYK/AYL.
Alcohols (C12-C13), primary, linear and essentially linear* .....	20	3	AYK	ALR/ASY/AYL.
Alcohols (C14-C18), primary, linear and essentially linear* .....	20	3	AYL	ALR/ASY/AYK.
Alkanes (C6-C9)	31	.....	ALK	
<i>Including:</i>				
<i>Heptanes.</i>				
<i>Hexanes.</i>				

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Nonanes.</i>				
<i>Octanes.</i>				
iso- & cyclo-Alkanes (C10-C11) .....	31	.....	AKI	
iso- & cyclo-Alkanes (C12+) .....	31	.....	AKJ	
Alkanes (C10-C26), linear and branched (flash point >60 °C)* .....	31	..... 3	ABD	
n-Alkanes (C10+) (all isomers) .....	31	.....	ALV	ALJ.
<i>Including:</i>				
<i>Decanes.</i>				
<i>Dodecanes.</i>				
<i>Heptadecanes.</i>				
<i>Tridecanes.</i>				
<i>Undecanes.</i>				
Alkane (C14-C17) sulfonic acid, sodium salt solutions, see Sodium alkyl (C14-C17) sulfonates (60-65% solution).	34	.....	AKA	SAA (AKE/SSU).
Alkaryl polyethers (C9-C20) .....	41	.....	AKP	
Alkenoic acid, polyhydroxy ester borated* .....	0	1, 3	AAY	
Alkenyl(C11+Jamide .....	10	.....	AKM	
Alkenyl (C8+) amine, Alkenyl (C12+) acid ester mixture.				
Alkenyl (C16-C20) succinic anhydride .....	11	.....	AAH	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene .....	32	.....	AAP	
Alkyl amine (C17+) .....	7	.....	AKY	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers).	34	.....	ADP	
Alkylated (C4-C9) hindered phenols * .....	21	3	AYO	
Alkyl(C3-C4)benzenes .....	32	.....	AKC	
<i>Including:</i>				
<i>Butylbenzenes.</i>				
<i>Cumene.</i>				
<i>Propylbenzenes.</i>				
Alkyl(C5-C8)benzenes .....	32	.....	AKD.	
<i>Including:</i>				
<i>Amylbenzenes.</i>				
<i>Heptylbenzenes.</i>				
<i>Hexylbenzenes.</i>				
<i>Octylbenzenes.</i>				
Alkyl(C9+)benzenes .....	32	.....	AKB	
<i>Including:</i>				
<i>Decylbenzenes.</i>				
<i>Dodecylbenzenes.</i>				
<i>Nonylbenzenes.</i>				
<i>Tetradecylbenzenes.</i>				
<i>Tetrapropylbenzenes.</i>				
<i>Tridecylbenzenes.</i>				
<i>Undecylbenzenes.</i>				
Alkylbenzene, Alkyldiene, Alkyldene mixture (each C12-C17) .....	32	.....	AIH	
Alkyl benzene distillation bottoms * .....	0	1, 3	ABB	
Alkylbenzene mixtures (containing at least 50% of Toluene)* .....	32	3	AZT	
Alkyl (C11-C17) benzene sulfonic acid* .....	0	1, 3	ABN	ABS/ABQ.
Alkylbenzenesulfonic acid (less than 4%) .....	0	1, 2	ABQ	ABS/ABN.
Alkylbenzene sulfonic acid, sodium salt solution .....	33	.....	ABT	
Alkyl (C12+) dimethylamine* .....	7	3	ADM	
Alkyl dithiocarbamate (C19-C35)* .....	34	3	ADB	
Alkyl dithiothiadiazole (C6-C24) .....	33	.....	ADT	
Alkyl polyglucoside solution, see individual polyglucoside solution .....	43	.....	AGD	AGL/AGM AGN/AGO/AGP.
Alkyl ester copolymer (C4-C20) .....	34	.....	AES	AEQ.
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)*.	43	3	AGN	AGD/AGL AGM/AGO/AGP.
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)*.	43	3	AGO	AGD/AGL/AGN/AGP.
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less)*.	43	3	AGP	AGD/AGL/AGM/AGN/AGO.
Alkyl(C7-C9) nitrates .....	34	2	AKN	ONE.
Alkyl (C4-C9) phenols .....	21	.....	AYI	BLT/BTP>NNP/OPH.
Alkyl(C7-C11) phenol poly(4-12)ethoxylate .....	40	.....	APN	NPE.
Alkyl (C8-C40) phenol sulfide .....	34	.....	AKS	
Alkyl phenol sulfide (C8-C40), see Alkyl (C8-C40) phenol sulfide .....	34	.....	AKS.	
Alkyl(C8-C9) phenylamine in aromatic solvents .....	9	.....	ALP	
Alkyl(C9-C15) phenyl propoxylate .....	40	.....	AXL	
Alkyl (C8-C10) polyglucoside solution (65% or less)* .....	43	3	AGL	AGD/AGM/AGN/AGO/AGP.
Alkyl (C12-C14) polyglucoside solution (55% or less)* .....	43	3	AGM	AGD/AGL/AGN/AGO/AGP.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Alkyl (C12-C16) propoxyamine ethoxylate*	8	3	AXE	LPE.
Alkyl ester copolymer in mineral oil	34	.....	AEQ	AES.
<i>Alkyl phthalates, see individual phthalates</i>	34	.....	AYS	
Alkyl(C10-C20), saturated and unsaturated phosphite	34	.....	AKL	
Alkyl succinic anhydride	11	.....	AUA	
Alkyl sulfonic acid ester of phenol	34	.....	AKH	
Alkyl (C18+) toluenes*	32	3	AUS	AYL.
Alkyl toluene	32	.....	AYL	AUS.
Alkyl (C18-C28) toluenesulfonic acid*	0	1, 3	AUU	
Alkyl (C18-C28) toluenesulfonic acid, Calcium salts, borated*	34	3	AUB	
Alkyl (C18-C28) toluenesulfonic acid, Calcium salts, low overbase*	33	3	AUL	
Alkyl (C18-C28) toluenesulfonic acid, Calcium salts, high overbase*	33	3	AUC	
Allyl alcohol	15	2	ALA	
Allyl chloride	15	.....	ALC	
<i>Aluminum chloride, Hydrochloric acid solution, see "Aluminum chloride/Hydrogen chloride solution".</i>	0	1	AHS	AHG.
Aluminum chloride/Hydrogen chloride solution*	0	1,3	AHG	AHS.
Aluminum hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)*.	43	3	AHN	
Aluminum sulfate solution	43	2	ASX	ALM.
Amine C-6, morpholine process residue	9	.....	AOI	
2-(2-Aminoethoxy)ethanol	8	.....	AEX	
Aminoethyl diethanolamine/Aminoethyl ethanolamine solution	8	.....	ADY	
Aminoethyl ethanolamine	8	.....	AAE	
N-Aminoethylpiperazine	7	.....	AEP	
2-Amino-2-hydroxymethyl-1,3-propanediol solution	43	.....	AHL	
2-Amino-2-methyl-1-propanol	8	.....	APZ	APQ/APR.
Ammonia, anhydrous	6	.....	AMA	
<i>Ammonia, aqueous (28% or less Ammonia), see Ammonium hydroxide</i>	6	.....		AMH.
Ammonium bisulfite solution (70% or less)	43	2	ABX	ASU.
Ammonium chloride solution (less than 25%)*	43	3	AIS	AMC.
Ammonium hydrogen phosphate solution	0	1	AMI	
Ammonium hydroxide (28% or less Ammonia)	6	.....	AMH	
<i>Ammonium lignosulfonate solution, see also Lignin liquor</i>	43	.....	ALG	LNL.
Ammonium nitrate solution (93% or less)	0	1	ANW	AMN/AND/ANR.
Ammonium nitrate solution (45% or less)	0	1	AND	AMN/ANR/ANW.
<i>Ammonium nitrate/Urea solution (containing Ammonia), see Urea/Ammonium nitrate solution (containing more than 2% Ammonia).</i>	6	.....		UAS (ANU/UAT/UAU/UAV).
<i>Ammonium nitrate/Urea solution (containing less than 2% free Ammonia), see Urea/Ammonium nitrate solution (containing less than 2% free Ammonia).</i>	6	.....		UAT (ANU/UAS/UAU/UAV).
<i>Ammonium nitrate/Urea solution (not containing Ammonia), see Urea/Ammonium nitrate solution (containing less than 1% Ammonia).</i>	6	.....		UAU (ANU/UAS/UAT/UAV).
<i>Ammonium phosphate/Urea solution, see Urea/Ammonium phosphate solution.</i>	43	.....		UAP (APP/URE).
Ammonium polyphosphate solution	43	.....	AMO	
Ammonium sulfate solution	43	.....	ASW	AME/AMS.
Ammonium sulfate solution (20% or less)	43	.....	AME	AMS/ASW.
Ammonium sulfide solution (45% or less)*	5	3	ASS	ASF.
Ammonium thiocyanate/Ammonium thiosulfate solution	0	1	ACV	ACS.
Ammonium thiosulfate solution (60% or less)*	43	3	ATV	ATF.
Amyl acetate (all isomers)*	34	3	AEC	IAT/AML/AAS/AYA.
Amyl acid phosphate	34	.....	AIA	
n*-Amyl alcohol	20	3	AAN	AAI/AAL/APM/ASE/IAA.
Amyl alcohol, primary*	20	3	APM	AAI/AAL/ANN/APM/IAA.
sec-Amyl alcohol*	20	3	ASE	AAI/AAL/ANN/APM/IAA.
tert-Amyl alcohol*	20	3	AAL	AAI/APM/ASE/IAA.
<i>Amylene, see Pentene (all isomers)</i>	30	.....	AMW	PTX (AMX/AMZ/PTE).
<i>tert-Amylenes, see Pentene</i>	30	.....	AMZ	PTX (AMW).
<i>tert-Amyl methyl ether</i>	41	.....	AYE	
<i>Amyl methyl ketone, see Methyl amyl ketone</i>	18	.....	AMJ	MAK (AMK).
Aniline	9	.....	ANL	
Animal and Fish oils, n.o.s.	34	.....	AFN	
<i>Including:</i>				
<i>Cod liver oil.</i>				
<i>Lanolin.</i>				
<i>Neatsfoot oil.</i>				
<i>Pilchard oil.</i>				
<i>Sperm oil.</i>				
Animal and Fish acid oils and distillates, n.o.s.	34	.....	AFA	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Including:</i>				
Animal acid oil.				
Fish acid oil.				
Lard acid oil.				
Mixed acid oil.				
Mixed general acid oil.				
Mixed hard acid oil.				
Mixed soft acid oil.				
Anthracene oil (Coal tar fraction), see Coal tar	33		AHO	COR.
Apple juice	43		APJ	
Argon, liquefied	0	1	ARG	
Aryl polyolefins (C11-C50)	32		AYF	
Asphalt	33		ASP	ACU.
Asphalt blending stocks, roofers flux	33		ARF	
Asphalt blending stocks, straight run residue	33		ASR	
Asphalt emulsion	33		ASQ	
Asphalt, Kerosene, and other components	33		AKO	
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120 °C *)	31	3	AVA	GAK/GAV.
Barium long-chain (C11-C50) alkaryl sulfonate	34		BCA	
Barium long-chain alkyl(C8-C14)phenate sulfide	34		BCH	
Behenyl alcohol	20		BHY	
Benzene	32	2	BNZ	BHA/BHB/PYG.
Benzene and mixtures having 10% Benzene or more	32		BHB	BHA/BNZ/PYG.
Benzene hydrocarbon mixtures (containing Acetylenes) (having 10% Benzene or more).	32		BHA	BHB/BNZ/PYG.
Benzene sulfonyl chloride	0	1, 2	BSC	
Benzene/Toluene/Xylene mixtures (having 10% Benzene or more)	32		BTX	BHB/BNZ/PYG/TOL/XLX/XLM/XLO/XLP.
Benzenetricarboxylic acid, trioctyl ester	34		BCE	
Benzyl acetate	34		BZE	
Benzyl alcohol	21		BAL	
Benzyl chloride	36		BCL	
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but <99% by volume)*.	33	3	BIF	BIG/BIH/BII/BIJ/BIK.
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but <99% by volume)*.	33	3	BIG	BIF/BIH/BII/BIJ/BIK.
Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)*.	34	3	BIH	BIF/BIG/BII/BIJ/BIK.
Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume)*.	34	3	BII	BIF/BIG/BIJ/BIK.
Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume)*.	20	3	BIJ	BIF/BIG/BIH/BII/BIK.
Boronated Calcium sulfonate	34		BCU	
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters*.	20	3	BFY	
Brominated Epoxy Resin in Acetone	41		BER	
Bromochloromethane	36		BCM	
Butadiene (all isomers)	30		BDI	
Butadiene/Butylene mixtures (containing Acetylenes)	30		BBM	BBX/BDI/BTN/IBL.
Butane (all isomers)	31		BMX	IBT/BUT.
Butane/Propane mixture	31		BUP	LPG
1,4-Butanediol, see Butylene glycol	20		BDO	BUG.
2-Butanone, see Methyl ethyl ketone	18			MEK.
Butene, see Butylene				BUT/IBL.
Butene oligomer	30		BOL	
Butyl acetate (all isomers*)	34	3	BAX	BCN/BTA/BYA/IBA.
Butyl acrylate (all isomers*)	14	3	BAR	BAI/BTC.
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl alcohol (all isomers)	20	2		BAN/BAS/BAT/BAY/IAL.
Butyl alcohol (all isomers*)	20	2, 3	BAY	BAN/BAS/BAT/IAL.
Butylamine (all isomers*)	7	3	BTY	BAM/BTL/BUA/IAM.
Butylbenzene (all isomers*), see Alky(C3-C4)benzenes	32	3	BBE	AKC.
Butyl benzyl phthalate	34		BPH	
Butyl butyrate (all isomers*)	34	3	BBA	BIB/BUB.
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture*	14	3	DER	BMI/BMI/BMN/CEM.
Butylenes (all isomers)	30		BTN	IBL.
n*-Butyl ether	41		BTE	
Butylene glycol	20	2	BUG	BDO.
1,2-Butylene oxide	16		BTO	
n-Butyl ether	41	3	BTE	
n-Butyl formate	34		BNF	BFI/BFO.
Butyl heptyl ketone	18		BHK	
Butyl methacrylate	14		BMH	BMI/BMN.
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see Butyl/Decyl/Cetyl/Eicosyl methacrylate.	34			DER (BMH/BMI/BMN/CEM).

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Butyl methyl ketone, see Methyl butyl ketone</i> .....	18			
n-Butyl propionate .....	34		BPN	MBJ (MBK/MIK).
Butyl stearate .....	34		BST	
Butyl toluene .....	32		BUE	
Butyraldehyde (all isomers*) .....	19	3	BAE	BAD/BTR.
Butyric acid .....	4		BRA	IBR.
gamma-Butyrolactone .....	0	1, 2	BLA	
<i>Calcium alkaryl sulfonate (C11-C50), see Calcium long-chain alkaryl sulfonate (C11-C50)*.</i> .....	34	3	CAE	CAY.
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture .....	34		CPX	
Calcium alkyl (C10-C28) salicylate* .....	34	3	CAJ	CAJ/CAK/CAZ.
<i>Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18-C28) salicylate, or Calcium alkyl (C10-C28) salicylate.</i> .....	34			
<i>Calcium bromide solution, see Drilling brines</i> .....	43		CBI	DRS.
<i>Calcium bromide/Zinc bromide solution, see Drilling brine (containing Zinc salts).</i> .....	43			DZB.
Calcium carbonate slurry .....	34		CSR	
Calcium chloride solution .....	43		CCS	CLC.
Calcium hydroxide slurry .....	5		COH	CAH.
Calcium hypochlorite solution (15% or less*) .....	5	3	CHU	CHY/CHZ.
Calcium hypochlorite solution (more than 15%*) .....	5	3	CHZ	CHU/CHY.
<i>Calcium lignosulfonate solution, see also Lignin liquor</i> .....	43		CLL	LNL.
Calcium long-chain alkaryl sulfonate (C11-C50) .....	34		CAY	
Calcium long-chain alkyl (C5-C10*) phenate .....	34	3	CAU	CAN/CAQ/CAV/CAW.
Calcium long-chain alkyl (C5-C20) phenate .....	34		CAV	CAN/CAO/CAU/CAW.
Calcium long-chain alkyl (C11-C40) phenate* .....	34	3	CAW	CAN/CAQ/CAU/CAV.
<i>Calcium long-chain alkyl (C8-C40) phenate, see Calcium long-chain alkyl (C5-C10) phenate or Calcium long-chain alkyl (C11-C40) phenate.</i> .....	34		CAQ	CAU/CAV (CAN/CAW).
Calcium long-chain alkyl phenide (C8-C40) .....	34		CPI	
Calcium long-chain alkyl phenolic amine (C8-C40) .....	9		CPQ	
Calcium long-chain alkyl salicylate (C13+) .....	34		CAK	CAJ/CAZ.
Calcium long-chain alkyl (C18-C28) salicylate* .....	34	3	CAJ	
Calcium nitrate solutions (50% or less*) .....	34	3	CNU	CNT.
Calcium nitrate/Magnesium nitrate/Potassium chloride solution .....	34		CLM	CNT/CNU/MGN/MGO/PCS/PCU/PSD.
Calcium salts of fatty acids .....	34		CFF	
Calcium stearate .....	34		CSE	
Calcium sulfonate/Calcium carbonate/Hydrocarbon solvent mixture .....	33		CSH	
Camelina oil* .....	34	3	CEL	
Camphor oil (light) .....	18		CPO	
<i>Canola oil, see Oil, edible: Repeseed, (low erucic acid containing less than 4% free fatty acids).</i> .....	34			ORO (ORP).
epsilon-Caprolactam (molten or aqueous solutions)* .....	22	3	CLU	CLS.
Caramel solution .....	43		CML	
Carbolic oil .....	21		CBO	
Carbon dioxide, liquefied .....	0	1	CDO	CDH/CDQ.
Carbon dioxide (high purity) .....	0	1	CDH	CDO/CDQ.
Carbon dioxide (reclaimed quality) .....	0	1	CDQ	CDH/CDO.
Carbon disulfide .....	38		CBB	
Carbon tetrachloride .....	36	2	CBT	CBU.
<i>Cashew nut shell oil (untreated), see Oil, misc: Cashew nut shell (untreated).</i> .....	4			OCN.
<i>Castor oil, see Oil, edible: Castor</i> .....	34			OCA (VEO).
Catoxid feedstock .....	36	2	CXF	
Caustic potash solution .....	5	2	CPS	
Caustic soda solution .....	5	2	CSS	
Cesium formate solution* .....	34	3	CSM	
<i>Cetyl alcohol, see Alcohols (C13+)</i> .....	20			ALY (ASY/AYL).
Cetyl/Eicosyl methacrylate mixture .....	14	1	CEM	
<i>Cetyl/Stearyl alcohol, see Alcohols (C13+)</i> .....	20			ALY (ASY/AYL).
Chlorinated paraffins (C10-C13) .....	36		CLH	CLG/CLJ/CLQ.
Chlorinated paraffins (C14-C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains*). .....	36	3	CLJ	CLG/CLH/CLQ.
Chlorinated paraffins (C14-C17) (with 52% Chlorine) .....	36		CLQ	CLG/CLH/CLJ.
Chlorinated paraffins (C18+) with any level of chlorine .....	36		CLG	CLH/CLJ.
Chlorine .....	0	1	CLX	
Chloroacetic acid (80% or less*) .....	4	3	CHM	CHL/MCA.
Chlorobenzene .....	36		CRB	
Chlorodifluoromethane ( <i>monochlorodifluoromethane</i> ) .....	36		MCF	
2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution .....	0	1	CET	
Chloroform .....	36		CRF	
Chlorhydrins (crude*) .....	17	3	CHD	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution .....	9 .....		CDM	
o-Chloronitrobenzene .....	42 .....		CNO	CNP.
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one .....	18 .....	2	CDP	
2- or 3-Chloropropionic acid .....	4 .....		CPM	CLA/CLP.
Chlorosulfonic acid .....	0 .....	1	CSA	
m-Chlorotoluene * .....	36 .....	3	CTM	CHI/CRN/CTO.
o-Chlorotoluene * .....	36 .....	3	CTO	CHI/CRN/CTM.
p-Chlorotoluene * .....	36 .....	3	CRN	CHI/CTM/CTO.
Chlorotoluenes (mixed isomers) * .....	36 .....	3	CHI	CRN/CTM/CTO.
Choline chloride solution .....	20 .....		CCO	
Citric acid (70% or less *) .....	4 .....	3	CIS	CIT.
Clay slurry .....	43 .....		CLY	
Coal slurry .....	43 .....		COG	COA.
Coal tar .....	33 .....		COR	OCT.
Coal tar crude bases .....	33 .....		CTB	
Coal tar distillate, see Naphtha: Coal tar solvent .....	33 .....		CDL	NCT (CTU).
Coal tar naphtha solvent, see Naphtha: Coal tar solvent .....	33 .....			NCT (CDL/CTU).
Coal tar pitch (molten *) .....	33 .....	3	CTP	
Cocoa butter, see Oil, edible: Cocoa butter .....	34 .....			OCB (VEO).
Coconut oil, see Oil, edible: Coconut .....	34 .....			OCC (VEO).
Coconut oil, fatty acid, see Oil, misc: Coconut fatty acid .....	34 .....	2		CFA.
Coconut oil, fatty acid methyl ester, see Oil, misc: Coconut fatty acid methyl ester*.	34 .....	3		OCM.
Copper salt of long-chain (C17+) alkanoic acid .....	34 .....		CUS	CFT.
Copper salt of long-chain (C3-C16) fatty acid .....	34 .....		CFT	CUS.
Corn oil, see Oil, edible: Corn .....	34 .....			OCO (VEO).
Cotton seed oil, see Oil, edible: Cotton seed .....	34 .....			OCS (VEO).
Cottonseed oil, fatty acid .....	34 .....		CFY	
Creosote .....	21 .....	2	CCW	CCT/CWD.
Creosote (coal tar*) .....	21 .....	2, 3	CCT	CCW.
Creosote (wood tar*) .....	21 .....	2, 3	CWD	CCT/CCW.
Cresols (all isomers*) .....	21 .....	3	CRS	CFO/CFP/CRL/CRO/ CSC/CSO.
Cresols with less than 5% Phenol, see Cresols (all isomers) .....	21 .....		CFO	CRS (CFP/CRL/CRO/ CSO).
Cresols with 5% or more Phenol, see Phenol .....	21 .....		CFP	PHN (CFO/CRL/CRO/ CRS/CSO).
Cresylic spent caustic, see Cresylic acid, sodium salt solution .....	5 .....		CSC	CYD.
Cresylic acid, dephenolized .....	21 .....		CAD	CRY/CYN.
Cresylic acid, sodium salt solution .....	5 .....		CYD	CSC.
Cresylic acid with 5% or more phenol .....	21 .....		CYN	CAD/CRY.
Cresylic acid tar .....	21 .....		CRX	
Crotonaldehyde .....	19 .....	2	CTA	
Crude isobornylaldehyde, see Isobornylaldehyde (crude) .....	19 .....			INC.
Crude isopropanol, see Isopropyl alcohol, crude .....	20 .....			IPB (IPA/PAL).
Crude piperazine, see Piperazine, crude .....	7 .....			PZC (PPZ/PIZ).
Cumene, see Propylbenzene (all isomers) .....	32 .....		CUM	AKD (PBY/PBZ).
1,5,9-Cyclododecatriene .....	30 .....		CYT	
Cycloheptane .....	31 .....		CYE	
Cyclohexane .....	31 .....		CHX	
Cyclohexanol .....	20 .....		CHN	
Cyclohexanone .....	18 .....	2	CCH	
Cyclohexanone/Cyclohexanol mixture .....	18 .....	2	CYX	
Cyclohexyl acetate .....	34 .....		CYC	
Cyclohexylamine .....	7 .....		CHA	
1,3-Cyclopentadiene dimer (molten*) .....	30 .....	3	CPD	DPT/DPV.
Cyclopentadiene/Styrene/Benzene mixture .....	30 .....		CSB	
Cyclopentane .....	31 .....		CYP	
Cyclopentene .....	30 .....		CPE	
p*-Cymene .....	32 .....		CMP	
Decahydronaphthalene .....	33 .....		DHN	
Decaldehyde .....	19 .....		DAY	IDA/DAL.
Decane (all isomers), see n-Alkanes (C10+) (all isomers) .....	31 .....		DCC	ALV (ALJ).
Decanoic acid .....	4 .....		DCO	NEA.
Decene .....	30 .....		DCE	
Decyl acetate .....	34 .....		DYA	
Decyl acrylate .....	14 .....		DAT	IAI/DAR.
Decyl alcohol (all isomers*) .....	20 .....	2, 3	DAX	ISA/DAN.
Decyl/Dodecyl/Tetradecyl alcohol mixture* .....	20 .....	3	DYO	DAN/DAX/DDN/ISA.
Decylbenzene, see Alkyl(C9+) benzenes .....	32 .....		DBZ	AKB.
Decyloxytetrahydrothiophene dioxide .....	0 .....	1	DHT	
Detergent alkylate .....	32 .....		DKY	AKB/DBZ/DDB/TDB/ TRB/UBB.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Dextrose solution, see Glucose solution .....	43	.....	DTS	GLU.
Diacetone alcohol .....	20	2	DAA	
Dialkyl(C10-C14) benzenes, see Alkyl(C9+) benzenes .....	32	.....	DAB	AKB.
Dialkyl(C8-C9) diphenylamines .....	9	.....	DAQ	
Dialkyl(C7-C13) phthalates .....	34	.....	DAH	
<i>Including:</i>				
<i>Di-(2-ethylhexyl) phthalate.</i>				
<i>Dihexyl phthalate.</i>				
<i>Diisooctyl phthalate.</i>				
<i>Diisodecyl phthalate.</i>				
<i>Diisononyl phthalate.</i>				
<i>Dinonyl phthalate.</i>				
<i>Diocetyl phthalate.</i>				
<i>Ditridecyl phthalate.</i>				
<i>Diundecyl phthalate.</i>				
<i>Dialkyl (C9-C10) phthalates, see Dialkyl (C7-C13) phthalates .....</i>	34	.....	DLK	DLH (DAP/DHL/DHP/ DID/DIE/DIF/DIN/ DIO/DIT/DOP/DPA/ DTP/DUP).
Dialkyl thiophosphates sodium salts solution* .....	34	3	DYH	
Dibromomethane .....	36	.....	DBH	
Dibutylamine .....	7	.....	DBA	
Dibutyl carbinol, see Nonyl alcohol (all isomers) .....	20	.....	DHD	NNS (DBC/NNI/NNN).
Dibutyl hydrogen phosphonate .....	34	.....	DBT	DBV/DBW.
Dibutylphenols .....	21	.....	DBW	DBF/DBT/DBV.
2,6-Di-tert-butylphenol* .....	21	3	DPT	DIT.
Dibutyl phthalate .....	34	.....	DPA	
Dibutyl terephthalate* .....	34	3	DYE	
Dichlorobenzene (all isomers*) .....	36	3	DBX	DBM/DBO/DBP.
3,4-Dichloro-1-butene .....	36	.....	DCD	DCB.
Dichlorodifluoromethane .....	36	.....	DCF	
1,1-Dichloroethane .....	36	2	DCH	
Dichloroethyl ether* .....	41	3	DYR	DEE.
1,6-Dichlorohexane .....	36	.....	DHX	
2,2'-Dichloroisopropyl ether .....	41	.....	DCI	
Dichloromethane .....	36	2	DCM	
2,4-Dichlorophenol .....	21	.....	DCP	
2,4-Dichlorophenoxyacetic acid/Diethanolamine salt solution .....	43	.....	DDE	
2,4-Dichlorophenoxyacetic acid/Dimethylamine salt solution (70% or less)* .....	0	1, 2, 3	DDA	DAD/DSX.
2,4-Dichlorophenoxyacetic acid/Trisopropanolamine salt solution .....	43	2	DTI	
1,1-Dichloropropane .....	36	.....	DPB	DPC/DPL/DPP/DPX.
1,2-Dichloropropane* .....	36	3	DPP	DPB/DPC/DPL/DPX.
1,3-Dichloropropane .....	36	.....	DPC	DPB/DPL/DPP/DPX.
Dichloropropene (all isomers) .....	15	.....	DCW	DPF/DPU.
1,3-Dichloropropene .....	15	.....	DCW	DCW/DPF.
Dichloropropene/Dichloropropane mixtures .....	15	.....	DMX	DCW/DPB/DPC/DPL/ DPP/DPU/DPX.
2,2-Dichloropropionic acid .....	4	.....	DCN	
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten) .....	30	.....	DPT	CPD (DPV).
Dicyclopentadiene, Resin Grade, 81-89%* .....	30	3	DPV	CPD/DPT.
Diethanolamine .....	8	.....	DEA	
Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.	43	.....	DZZ	DDE.
Diethylamine .....	7	.....	DEN	
Diethylaminoethanol .....	8	.....	DAE	
2,6-Diethylaniline .....	9	.....	DMN	DIY.
Diethylbenzene .....	32	.....	DEB	
Diethylene glycol .....	40	2	DEG	
Diethylene glycol butyl ether, see Poly(2-8) alkylene glycol monoalkyl(C1-C6) ether.	40	.....	DME	PAG.
Diethylene glycol ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.	34	.....	DEM	PAF.
Diethylene glycol dibutyl ether .....	40	.....	DIG	
Diethylene glycol diethyl ether .....	40	.....	DGS	
Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.	40	.....	DGE	PAG.
Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetates.	34	.....	DGA	PAF.
Diethylene glycol n-hexyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40	.....	DHE	PAG.
Diethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40	.....	DGM	PAG.

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<i>Diethylene glycol methyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.</i>	34		DGR	PAF.
Diethylene glycol phenyl ether .....	40		DGP	
Diethylene glycol phthalate .....	34		DGL	
<i>Diethylene glycol propyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	40		DGO	PAG.
Diethylenetriamine .....	7	2	DET	
Diethylenetriaminepentacetic acid, pentasodium salt solution .....	43		DYS	
<i>Diethylthanolamine, see Diethylaminoethanol</i> .....	8			DAE.
Diethyl ether .....	8		EET	
<i>Diethyl hexanol, see Decyl alcohol (all isomers)</i> .....	20			DAX.
Di-(2-ethylhexyl) adipate .....	34		DEH	
Di-(2-ethylhexyl) phosphoric acid .....	1		DEP	
<i>Di-(2-ethylhexyl) phthalate, see Dialkyl (C7-C13) phthalate</i> .....	34		DIE	DAH.
Di-(2-ethylhexyl) terephthalate .....	34		DHH	
Diethyl phthalate .....	34		DPH	
Diethyl sulfate .....	34		DSU	
Diglycidyl ether of Bisphenol A .....	41		BDE	
Diglycidyl ether of Bisphenol F .....	41		DGF	
<i>Diheptyl phthalate, see Dialkyl (C7-C13) phthalate</i> .....	34		DHP	DAH.
Di-n-hexyl adipate .....	34		DHA	
Dihexyl phthalate .....	34		DHL	
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution .....	5		DDH	
Disobutylamine .....	7		DBU	
<i>Disobutyl carbinol, see Nonyl alcohol (all isomers)</i> .....	20		DBC	NNS.
Disobutylene .....	30		DBL	
Disobutyl ketone .....	18		DIK	
Disobutyl phthalate .....	34		DIT	DPA.
<i>Diisodecyl phthalate, see Dialkyl (C7-C13) phthalates</i> .....	34		DID	DAH.
Disononyl adipate .....	34		DNY	
<i>Disononyl phthalate, see Dialkyl (C7-C13) phthalates</i> .....	34	2	DIN	DAH.
<i>Disooctyl phthalate, see Dialkyl (C7-C13) phthalate</i> .....	34		DIO	DAH/(DIE/DOP).
Disopropanolamine .....	8		DIP	
Disopropylamine .....	7		DIA	DNA.
Disopropylbenzene (all isomers) .....	32		DIX	
Disopropynaphthalene .....	32		DII	
N,N-Dimethylacetamide .....	10		DAC	DLS.
N,N-Dimethylacetamide solution (40% or less*) .....	10	3	DLS	DAL.
Dimethyl adipate .....	34		DLA	
Dimethylamine .....	7		DMA	DMC/DMG/DMY.
Dimethylamine solution (45% or less*) .....	7	3	DMG	DMA/DMC/DMY.
Dimethylamine solution (greater than 45% but not greater than 55%)* .....	7	3	DMY	DMA/DMC/DMG.
Dimethylamine solution (greater than 55% but not greater than 65%)* .....	7	3	DMC	DMA/DMG/DMY.
<i>Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.</i>	9		CDM.	
<i>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less).</i>	9		DAD	DDA (DSX).
2,6-Dimethylaniline .....	9		DMM	DDL.
<i>Dimethylbenzene, see Xylenes</i> .....	32			XLX/XLM/XLO/XLP.
N,N-Dimethylcyclohexylamine .....	7		DXN	
Dimethyl disulfide* .....	0, 1, 2, 3		DSK	DDY.
<i>Dimethyldodecylamine, see N,N-Dimethyldodecylamine</i> .....	7			
N,N-Dimethyldodecylamine .....	7		DDY	
Dimethylethanolamine .....	8		DMB	
Dimethyl ether .....	41		DIM	
Dimethylformamide .....	10		DMF	
Dimethyl glutarate .....	34		DGT	
Dimethyl hydrogen phosphate .....	34	2	DPI	
Dimethyl octanoic acid .....	4		DMO	
Dimethyl phthalate .....	34		DTL	
Dimethylpolysiloxane .....	34		DMP	
2,2-Dimethylpropane-1,3-diol (molten or solution*) .....	20	3	DDI	
Dimethyl succinate .....	34		DSE	
Dinitrotoluene (molten*) .....	42	3	DNM	DNL/DNU/DTT.
<i>Dinonyl phthalate, see Dialkyl (C7-C13) phthalates</i> .....	34		DIF	DAH.
<i>Diocyl phthalate, see Dialkyl (C7-C13) phthalates</i> .....	34		DOP	DAH (DIE/DIO).
1,4-Dioxane .....	41		DOX	
Dipentene .....	30		DPN	
Diphenyl .....	32		DIL	
Diphenylamine (molten) .....	9		DAG	DAM.
Diphenylamines, reaction product with 2,2,4-trimethylpentene .....	9		DAK	
Diphenylamines, alkylated .....	9		DAJ	
Diphenyl/Diphenyl ether mixtures .....	33		DDO	

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Diphenyl ether .....	41 .....		DPE	
<i>Diphenyl ether/Biphenyl ether mixture, see Diphenyl/Diphenyl ether mixture.</i>	41 .....			DDO.
Diphenyl ether/Diphenyl phenyl ether mixture .....	41 .....		DOB	
Diphenyl/methane diisocyanate .....	12 .....		DPM	
Diphenylol propane-Epichlorohydrin resins .....	0 .....	1	DPR	
<i>Diphenyl oxide, see Diphenyl ether</i> .....	40 .....			DPE.
Di-n-propylamine .....	7 .....		DNA	DIA.
Dipropylene glycol .....	40 .....		DPG	
<i>Dipropylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	40 .....		DBG	PAG.
Dipropylene glycol dibenzoate .....	34 .....		DGY	
<i>Dipropylene glycol methyl ether, see Poly (2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	40 .....		DPY	PAG.
Distillates, flashed feed stocks .....	33 .....		DFF	
Distillates, straight run .....	33 .....		DSR	
Di-tert-butyl phenol .....	21 .....		DBF	DBT/DBV/DBW.
2,4-Di-tert-butyl phenol .....	21 .....		DBV	DBF/DBT/DBW.
2,6-Di-tert-butyl phenol .....	21 .....		DBW	DBF/DBT/DBV.
Dithiocarbamate ester (C7-C35) .....	34 .....		DHO	
Ditridecyl adipate .....	34 .....		DTY	
<i>Ditridecyl phthalate, see Dialkyl (C7-C13) phthalate</i> .....	34 .....		DTP	DAH.
<i>Diundecyl phthalate, see Dialkyl (C7-C13) phthalates</i> .....	34 .....		DUP	DAH.
<i>Dodecane (all isomers), see Alkanes (C10+) (all isomers)</i> .....	31 .....		DOF	ALV (ALJ/DOC).
tert-Dodecanethiol .....	0 .....	1, 2	DDL	LRM.
Dodecene (all isomers*) .....	30 .....	3	DOZ	DDC/DOD.
<i>Dodecanol (all isomers), see Dodecyl alcohol (all isomers)</i> .....	20 .....	2	DDN	LAL.
2-Dodecenylsuccinic acid, dipotassium salt solution .....	34 .....		DSP	
Dodecyl alcohol (all isomers) .....	20 .....		DDN	ASK/ASY/LAL.
Dodecylamine/Tetradecylamine mixture .....	7 .....		DTA	
<i>Dodecylbenzene, see Alkyl (C9+) benzenes</i> .....	32 .....		ddb	AKB.
Dodecyldimethylamine/Tetradecyldimethylamine mixture .....	7 .....		DOT	
Dodecyl diphenyl ether disulfonate solution .....	43 .....		DTA	
Dodecyl hydroxypropyl sulfide .....	0 .....	1	DOP	
Dodecyl methacrylate .....	14 .....		DDM	
Dodecyl/Octadecyl methacrylate mixture .....	14 .....		DOM	DDM.
Dodecyl/Pentadecyl methacrylate mixture .....	14 .....		DDP	
Dodecyl phenol .....	21 .....		DOL	
Dodecyl xylene .....	32 .....		DXY	
Drilling brines (containing Calcium, Potassium or Sodium salts) .....	43 .....		DRL	DRB/DRS.
Drilling brines (containing Zinc salts) .....	43 .....		DZB	DRB.
Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution*.	43 .....	3		DRS/DRL.
Drilling mud (low toxicity) ( <i>if flammable or combustible</i> ) .....	33 .....		DRO	DRM/DRN/DRP.
Drilling mud (low toxicity) ( <i>if non-flammable or non-combustible</i> ) .....	43 .....		DRP	DRM/DRN/DRO.
Epichlorohydrin .....	17 .....		EPC	
Epoxy resin .....	18 .....		EPN	
<i>ETBE, see Ethyl tert-butyl ether</i> .....	40 .....			EBE.
Ethane .....	31 .....		ETH	
Ethanolamine .....	8 .....		MEA	
<i>2-Ethoxyethanol, see Ethylene glycol monoalkyl ethers</i> .....	40 .....		EEO	EGC (EGE).
2-Ethoxyethyl acetate .....	34 .....	2	EEA	EGA.
Ethoxylated alkyloxy alkyl amine .....	8 .....		ELM	
<i>Ethoxylated alcohols, C11-C15, see the alcohol poylethoxylates</i> .....	40 .....			AEA/AEB/AED/AET/APV/APW/APX.
Ethoxylated long-chain (C16+) alkyloxyalkylamine .....	8 .....		ELA	
Ethoxylated tallow alkyl amine .....	7 .....		TAY	TAG/TAR.
Ethoxylated tallow amine (>95%)* .....	7 .....	3	TAR	TAG/TAY.
Ethoxylated tallow alkyl amine, glycol mixture .....	7 .....		TAG	TAR/TAY.
<i>Ethoxy triglycerol, see Poly (2-8)alkylene glycol monoalkyl (C1-C6) ether</i> .....	40 .....		ETG	PAG (ETR/TGE).
Ethoxy triglycerol (crude) .....	40 .....		ETR	
Ethyl acetate .....	34 .....	2	ETA	
Ethyl acetoacetate .....	34 .....		EAA	
Ethyl acrylate .....	14 .....	2	EAC	
Ethyl alcohol .....	20 .....	2	EAL	
Ethylamine .....	7 .....	2	EAM	EAN/EAO.
Ethylamine solution (72% or less*) .....	7 .....	3	EAN	EAM/EAO.
Ethyl amyl ketone .....	18 .....		EAK	ELK.
Ethylbenzene .....	32 .....		ETB	
Ethyl butanol .....	20 .....		EBT	
N-Ethyl-butylamine .....	7 .....		EBA	
Ethyl tert-butyl ether .....	41 .....	2	EBE	
Ethyl butyrate .....	34 .....		EBR	

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Ethyl chloride .....	36		ECL	
Ethyl cyclohexane .....	31		ECY	
N-Ethylcyclohexylamine .....	7		ECC	
2-Ethyl-2-(2,4-dichlorophenoxy) acetate .....	34		EDY	
2-Ethyl-2-(2,4-dichlorophenoxy) propionate .....	34		EDP	
S-Ethyl dipropylthiocarbamate *	34	3	ECB	
Ethylene .....	30		ETL	
Ethylene carbonate .....	34		ECR	
Ethylene chlorohydrin .....	20		ECH	
Ethylene cyanohydrin .....	20	2	ETC	
Ethylenediamine .....	7	2	EDA	EMX.
Ethylenediaminetetraacetic acid/tetrasodium salt solution .....	43		EDS	
Ethylene dibromide .....	36		EDB	
Ethylene dichloride .....	36	2	EDC	
Ethylene glycol .....	20	2	EGL	EAG.
Ethylene glycol acetate .....	34		EGO	
Ethylene glycol butyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGM	EGC.
Ethylene glycol tert-butyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGG	EGC.
Ethylene glycol butyl ether acetate .....	34		EMA	
Ethylene glycol diacetate .....	34		EGY	
Ethylene glycol dibutyl ether .....	40		EGB	
Ethylene glycol ethyl ether, <i>see</i> Ethyl glycol monoalkyl ethers .....	40		EGE	EGC/EEO.
Ethylene glycol ethyl ether acetate, <i>see</i> 2-Ethoxyethyl acetate .....	34	2	EGA	EEA.
Ethylene glycol hexyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGH	EGC.
Ethylene glycol isobutyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40			EGC (EGG/EGM).
Ethylene glycol isopropyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGI	EGN/EGP.
Ethylene glycol methyl butyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EMB	EGC.
Ethylene glycol methyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EME	EGC.
Ethylene glycol methyl ether acetate .....	34		EGT	
Ethylene glycol monoalkyl ethers .....	40	2	EGC	
Including:				
<i>Ethylene glycol butyl ether.</i>				
<i>Ethylene glycol isobutyl ether.</i>				
<i>Ethylene glycol methyl butyl ether.</i>				
<i>Ethylene glycol tert-butyl ether.</i>				
<i>Ethylene glycol ethyl ether.</i>				
<i>Ethylene glycol hexyl ether.</i>				
<i>Ethylene glycol methyl ether.</i>				
<i>Ethylene glycol propyl ether.</i>				
<i>Ethylene glycol iso-propyl ether.</i>				
Ethylene glycol phenyl ether .....	40		EPE	
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture .....	40		EDX	
Ethylene glycol propyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGP	EGC/EGI/EGN.
Ethylene glycol iso-propyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGI	EGC/EGN/EGP.
Ethylene glycol n-propyl ether, <i>see</i> Ethylene glycol monoalkyl ethers .....	40		EGN	EGC (EGI/EGP).
Ethylene oxide .....	0	1	EOX	
Ethylene oxide/Propylene oxide mixture .....	16		EPF	EPM.
Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass*.	16	3	EPM	EPF.
Ethylene-Propylene copolymer (in liquid mixtures) .....	31		EPY	
Ethylene-Vinyl acetate copolymer (emulsion) .....	43		ECV	
Ethyl ether, <i>see</i> Diethyl ether .....	41			EET.
Ethyl-3-ethoxypropionate .....	34		EEP	
2-Ethylhexaldehyde, <i>see</i> Octyl aldehydes .....	19		EHA	OAL (OLX).
2-Ethylhexanoic acid, <i>see</i> Octanoic acid .....	4		EHO	OAY (OAA).
2-Ethylhexanol, <i>see</i> Octanol .....	20		EHX	OCA (OTA).
2-Ethylhexyl acrylate .....	14		EAI	
2-Ethylhexylamine .....	7		EHM	
Ethyl hexyl phthalate .....	34		EHE	
Ethyl hexyl tallate .....	34		EHT	
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, (C8-C10) ester .....	34		EHD	
Ethyl lactate .....	34		ELT	
Ethyldene norbornene .....	30	2	ENB	
Ethyl methacrylate .....	14		ETM	
N-Ethylmethylallylamine .....	7		EML	
Ethyl propionate .....	34		EPR	
2-Ethyl-3-propylacrolein .....	19	2	EPA	
Ethyl toluene .....	32		ETE	
Fatty acids (saturated, C13+) .....	34		FAB	FAD.
Fatty acids (saturated, C14+), <i>see</i> Fatty acids (saturated, C13+) .....	34		FAD	FAB.
Fatty acid methyl esters* .....	4	3	FME	
Fatty acids, (C8-C10)* .....	4	3	FDS	
Fatty acids, (C12+)* .....	4	3	FDT	FAB/FAD/FAI/FDI.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Fatty acids, (C16+)* .....	4	3	FDI	
Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester* .....	4	2, 3	FAE	
Ferric chloride solution .....	1		FCS	FCL.
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution .....	43	2	FHX	STA.
Ferric nitrate/Nitric acid solution .....	3	2	FNN	
<i>Fish oil, see Oil, edible; Fish .....</i>	34	2	OFS (AFN).	
Fish solubles ( <i>water based fish meal extracts</i> ) .....	43		FSO	
Fluorosilicic acid (20-30%) in water solution* .....	1	3	FSK	FSJ/FSL/HFS.
Fluorosilicic acid (30% or less) .....	1		FSJ	FSK/FSL/HFS.
Formaldehyde (50% or more), Methanol mixtures .....	19	2	MTM	
Formaldehyde solutions (37%-50%) .....	19	2	FMS	FMG/FMR.
Formaldehyde solutions (45% or less*) .....	19	2, 3	FMR	FMG/FMS.
Formamide .....	10		FAM	
Formic acid .....	4	2	FMA	FMB.
Formic acid (85% or less) .....	19	2	FMB	FMA.
Formic acid (over 85%)* .....	4	2, 3	FMD	
Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate)* .....	4	2, 3	FMC	FMA/FMB.
Fructose solution .....	43		FTS	FRT.
Fumaric adduct of Rosin, water dispersion .....	43		FAR	
Furfural .....	19		FFA	
Furfuryl alcohol .....	20	2	FAL	
<i>Gas oil, cracked, see Oil, misc: Gas, cracked .....</i>	33		GAK	GOC.
Gasoline blending stock, alkylates .....	33		GRF	
Gasoline blending stock, reformates .....	33			
Gasolines:				
Automotive (containing not over 4.23 grams lead per gal.) .....	33		GAT	
Aviation (containing not over 4.86 grams lead per gal.) .....	33		GAV	AVA.
Casinghead ( <i>natural</i> ) .....	33		GCS	
Polymer .....	33		GPL	
Straight run .....	33		GSR	
Gasolines: <i>Pyrolysis (containing Benzene), see Pyrolysis gasoline (containing Benzene).</i>	33		GPY	PYG.
Glucitol/Glycerol blend propoxylated (containing less than 10% amines)* ..	40	3	GGA	
Glucose solution .....	43		GLS	DTS.
Glutaraldehyde solutions (50% or less) .....	19		GTA	
Glycerine .....	20	2	GCR	
Glycerine (83%)/Dioxanedimethanol (17%) mixture .....	20		GDN	GDM.
Glycerol, <i>see Glycerine .....</i>	20			GCR.
Glycerol ethoxylated .....	40		GXA	
Glycerol monooleate .....	20		GMO	
Glycerol polyalkoxylate .....	40		GPA	
Glycerol propoxylated* .....	40	3	GXP	
Glycerol, propoxylated and ethoxylated* .....	40	3	GXE	
Glycerol/Sucrose blend propoxylated and ethoxylated* .....	40	3	GSB	
Glyceryl triacetate .....	34		GCT	
<i>Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of C10 trialkyl acetic acid.</i>	34		GLT	GLU.
<i>Glycidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkyl acetic acid.</i>	34		GLT	GLU.
Glycidyl ester of C10 trialkyl acetic acid .....	34		GLU	GLT.
<i>Glycidyl ester of Versatic acid, see Glycidyl ester of C10 trialkyl acetic acid.</i>	34		GLT	GLU.
Glycine, sodium salt solution .....	7		GSS	
Glycol mixture, crude .....	20		GMC	
<i>Glycol diacetate, see Ethylene glycol diacetate .....</i>	34			EGY.
Glycolic acid solution (70% or less*) .....	4	3	GLC	
<i>Glycol triacetate, see Glyceryl triacetate .....</i>	34			GCT.
Glyoxal solution (40% or less*) .....	19	3	GOS	
Glyoxylic acid solution (50% or less*) .....	4	3	GAC	
Glyphosate solution (not containing surfactant) .....	7		GIO	RUP.
<i>Groundnut oil, see Oil, edible: Groundnut .....</i>	34			OGN (VEO).
<i>Heptadecane (all isomers), see Alkanes (C10+) (all isomers) .....</i>	31			ALV (ALJ).
<i>Heptane (all isomers), see Alkanes (C6-C9) .....</i>	31		HMX	ALK(HPI/HPT).
n-Heptanoic acid .....	4		HEN	HEP.
Heptanol (all isomers*) .....	20	3	HTX	HTN.
Heptene (all isomers*) .....	30	3	HPX	THE.
Heptyl acetate .....	34		HPE	
<i>Heptylbenzenes, see Alkyl (C3-C4) benzenes .....</i>	32			AKD.
<i>Herbicide (C15-H22-NO2-Cl), see Metolachlor .....</i>	34			MCO.
<i>Hexadecanol, see Alcohols (C13+) .....</i>	20			ALY (ASY/AYL).
1-Hexadecylnaphthalene/1,4-bis(Hexadecyl)naphthalene mixture .....	32		HNN	HNI.
1-n-Hexadecylnaphthalene (90%)/1,4-di-n-(Hexadecyl)naphthalene (10%)	32		HNI	HNN.

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<i>Hexaethylene glycol, see Polyethylene glycol</i> .....	20		HMG	PEG.
Hexamethylenediamine adipate solution .....	43		HAN	HAM.
Hexamethylenediamine adipate (50% in water) .....	43		HAM	HAN.
Hexamethylenediamine (molten *) .....	7	3	HME	HMD/HMC.
Hexamethylenediamine solution .....	7		HMC	HMD/HME.
Hexamethylene diisocyanate .....	12		HMS	HDI.
Hexamethylene glycol .....	20		HMG	HXG.
Hexamethyleneimine .....	7		HMI	
Hexamethylenetetramine solutions .....	7		HTS	HMT.
1,6-Hexanediol, distillation overheads* .....	4	2, 3	HDO	
Hexanoic acid .....	4		HXO	
Hexanol .....	20		HXM	HEW/HEZ/HXN.
Hexene (all isomers *) .....	30	3	HEX	HXE/HXT/HXU/HXV/ MPN/MTN.
Hexyl acetate .....	34		HAE	
<i>Hexylbenzenes, see Alkyl (C3-C4) benzenes</i> .....	32			AKD.
<i>Hexylene glycol, see Hexamethylene glycol</i> .....	20		HXG	HMG.
<i>Hog grease, see Lard</i> .....	34			LRD.
Hydrochloric acid .....	1		HCL	
<i>Hydrofluorosilicic acid (25% or less), see Fluorosilicic acid (30% or less)</i> .....	1			FSJ(FSK/FSL/HFS).
Hydrogenated starch hydrolysate* .....	0	1, 3	HSH	
bis(Hydrogenated tallow alkyl)methyl amines .....	7		HTA	
Hydrogen peroxide solutions (over 8% but not over 60% by mass)* .....	0	1,3	HPN	HPO/HPS.
Hydrogen peroxide solutions (over 60% but not over 70% by mass*) .....	0	1, 3	HPS	HPN/HPO.
alpha-Hydro-omega-hydroxytetradeca(oxytetramethylene) .....	40		HTO	PYS/PYT.
2-Hydroxyethyl acrylate .....	14	2	HAI	
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution .....	43		HET	
2-Hydroxy-4-(methylthio)butanoic acid .....	4		HBA	
<i>Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated</i> .....	31			PHT.
<i>Illipe oil, see Oil, edible: Illipe</i> .....	34			ILO (VEO).
Isoamyl alcohol* .....	20	3	IAA	AAI/AAL/AAN/APM/ ASE.
Isobutyl alcohol* .....	20	2, 3	IAL	BAN/BAS/BAT/BAY.
Isobutyl formate* .....	34	3	BFI	BFN/BFO.
Isobutyl methacrylate* .....	14	3	BMI	BMH/BMN.
Isononylaldehyde (crude) .....	19		INC	
Isophorone .....	18	2	IPH	
Isophoronediamine .....	7		IPI	
Isophorone diisocyanate .....	12		IPD	
Isoprene (all isomers) .....	30		IPR	
Isoprene (part refined) .....	30		IPS	IPR/ISC.
Isoprene concentrate (Shell) .....	30		ISC	
Isopropanolamine* .....	8	3	MPA	IPF/PAX/PLA.
Isopropanolamine solution* .....	8	3	PAI	MPA/PAY/PLA/PRG.
Isopropyl acetate* .....	34	3	IAC	PAT.
Isopropyl alcohol* .....	20	2, 3	IPA	IPB/PAL.
Isopropylamine* .....	7	3	IPP	IPO/IPQ/PRA.
Isopropylamine (70% or less) solution* .....	7	3	IPQ	IPO/IPP/PRA.
<i>Isopropylbenzenes, see Alkyl (C3-C4) benzenes</i> .....	32			AKC(CUM/PBY/PBZ).
Isopropylcyclohexane* .....	31	3	IPX	
Isopropyl ether* .....	41	3	IPE	PRL/PRN.
<i>Jatropha oil, see Oil, misc: Jatropha</i> .....	34			JTO.
Jet fuels:				
JP-4 .....	33		JPF	
JP-5 .....	33		JPV	
JP-8 .....	33		JPE	
Kaolin clay solution .....	43		KLC	KLS.
Kaolin slurry .....	43		KLS	KLC.
Kerosene .....	33		KRS	
Kraft black liquor .....	5		KBL	KPL.
Kraft pulping liquors (free alkali content 3% or more) ( <i>Black, Green, or White</i> ). .....	5		KPL	KBL.
Lactic acid .....	0	1	LTA	
Lactonitrile solution (80% or less*) .....	37	3	LNI	
Lard .....	34		LRD	OLD.
Latex, ammonia (1% or less*)-inhibited .....	30	3	LTX	
Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber*. .....	43	3	LCC	LCB/LSB.
Latex, liquid synthetic .....	43		LLS	LCB/LCC/LSB.
Lauric acid .....	34		LRA	
Lauric acid methyl ester/Myristic acid methyl ester mixture .....	34		LMM	
<i>Lauryl polyglucose, see Alkyl(C12-C14) polyglucoside solution (55% or less)</i> . .....	43			AGM/LAP.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Lauryl polyglucose (50% or less), see Alkyl (C12-C14) polyglucoside solution (55% or less).</i>	43		LAP	AMG.
Lecithin .....	34		LEC	
Lignin liquor .....	43		LNL	ALG/CLL/LGA/LGM/ LSL/SHC/SHP/ SHQ/SLP. LGA/LNL/LSL. LNL or SLG.
Ligninsulfonic acid, magnesium salt solution * .....	43	3	LGM	
<i>Lignosulfonic acid, sodium salt solution, see Lignin liquor or Sodium lignosulfonate.</i>	43		LGA	
<i>d-Limonene, see Dipentene .....</i>	30			DPN.
Linear alkyl (C12-C16) propoxyamine ethoxylate .....	8		LPE	
<i>Linseed oil, see Oil, misc: Linseed .....</i>	34			OLS.
<i>Liquefied Natural Gas, see Methane .....</i>	34		LNG	MTH.
Liquid chemical wastes* .....	0	1, 3	LCW	
Long-chain alkaryl polyether (C11-C20) .....	41		LCP	
Long-chain alkaryl sulfonic acid (C16-C60) .....	0	1	LCS	
Long-chain alkyl amine .....	7		LAA	
Long-chain alkylphenate/Phenol sulfide mixture .....	21		LPS	
Long-chain alkyl (C13+) salicylic acid .....	4		LAS	
L-Lysine solution (60% or less *) .....	43	3	LYS	
Magnesium chloride solution .....	0	1, 2	MGL	
Magnesium hydroxide slurry .....	5		MHS	
Magnesium long-chain alkaryl sulfonate (C11-C50) .....	34		MAS	MSE.
Magnesium long-chain alkyl phenate sulfide (C8-C20) .....	34		MPS	
Magnesium long-chain alkyl salicylate (C11+) .....	34		MLS	
Magnesium nitrate solution (66.7%) .....	43		MGP	MGN/MGO. MPS.
<i>Magnesium nonyl phenol sulfide, see Magnesium long-chain alkyl phenate sulfide (C8-C20).</i>	34			
<i>Magnesium sulfonate, see Magnesium long-chain alkaryl sulfonate (C11-C50).</i>	34		MSE	MAS.
Maleic anhydride .....	11		MLA	
Malitol solution* .....	0	1, 3	MTI	
<i>Mango kernel oil, see Oil, edible: Mango kernel .....</i>	34			MKO (VEO).
2-Mercaptobenzothiazol (in liquid mixture) .....	5		BTM	SMD.
Mercaptobenzothiazol, sodium salt solution .....	5		SMB	MBT.
Mesityl oxide .....	18	2	MSO	
Metam sodium solution .....	7		MSS	SMD.
Methacrylic acid .....	4		MAD	
Methacrylic acid—Alkoxypoly(alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)*.	20	3	MAQ	
Methacrylic resin in ethylene dichloride .....	14		MRD	
Methacrylonitrile .....	15	2	MET	
Methane .....	31		MTH	LNG.
3-Methoxy-1-butanol .....	20		MTX	
3-Methoxybutyl acetate .....	34		MOA	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide, <i>see</i> Metolachlor.	34			MCO.
1-Methoxy-2-propyl acetate .....	34		MXP	
<i>Methoxy triglycerol, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether</i>	40		MTG	PAG (TGY).
Methyl acetate .....	34		MTT	
Methyl acetoacetate .....	34		MAE	
Methyl acetylene/Propadiene mixture .....	30		MAP	
Methyl acrylate .....	14		MAM	
Methyl alcohol .....	20	2	MAL	
Methylamine solutions (42% or less *) .....	7	3	MSZ	
Methylamyl acetate .....	34		MAC	
Methylamyl alcohol .....	20		MAA	MIC.
Methyl amyl ketone .....	18		MAK	
N-Methylaniline* .....	9	3	MAN	
alpha-Methylbenzyl alcohol with Acetophenone (15% or less)* .....	20	3	MBA	
Methyl bromide .....	36		MTB	
<i>Methyl butanol, see the amyl alcohols .....</i>	20			AAI/AAL/AAN/APM/ ASE/IAA.
Methyl butenol .....	20		MBL	
<i>Methyl butenes, see Pentene .....</i>	30			PTX (AMW/AMZ/ PTE).
Methyl tert-butyl ether .....	41	2	MBE	
Methyl butyl ketone .....	18	2	MBB	MBK/MIK.
Methyl 3-(3,5 di-tert-butyl-4-hydroxyphenyl) propionate crude melt .....	20		MYP	
Methylbutynol .....	20		MBY	MHB.
Methyl butyrate .....	34		MBU	
Methyl chloride .....	36		MTC	
Methylcyclohexane .....	31		MCY	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Methylcyclohexanemethanol (crude) .....	20 .....		MYH	
Methylcyclopentadiene dimer .....	30 .....		MCK	
Methylcyclopentadienyl manganese tricarbonyl* .....	0 .....	1, 3	MCT	MCW.
Methylcyclopentadienyl manganese tricarbonyl (60-70%) in mineral oil .....	0 .....	1	MCW	MCT.
Methyl diethanolamine .....	8 .....		MDE	MAB.
Methylene bridged isobutlenated phenols .....	21 .....		MBP	
<i>Methylene chloride, see Dichloromethane</i> .....	21 .....			DCM.
2-Methyl-6-ethyl aniline .....	9 .....		MEN	
Methyl ethyl ketone .....	18 .....	2	MEK	
2-Methyl-5-ethyl pyridine .....	9 .....		MEP	
Methyl formate .....	34 .....		MFM	
N-Methylglucamine solution (70% or less*) .....	43 .....	3	MGC	
2-Methylglutaronitrile .....	37 .....		MLN	MGN.
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)* .....	37 .....	3	MGE	MLN.
Methyl heptyl ketone .....	18 .....		MHK	
2-Methyl-2-hydroxy-3-butyne .....	20 .....		MHB	MBY.
<i>Methyl isoamyl ketone, see Methyl amyl ketone</i> .....	18 .....		MAJ	MAK.
<i>Methyl isobutyl carbinol, see Methyl amyl alcohol</i> .....	20 .....		MIC	MAA.
Methyl isobutyl ketone .....	18 .....		MIK	MBB/MBK.
Methyl methacrylate .....	14 .....		MMM	
3-Methyl-3-methoxybutanol .....	20 .....		MXB	
3-Methyl-3-methoxybutyl acetate .....	34 .....		MMB	
Methyl naphthalene (molten*) .....	32 .....	3	MNA	
Methylolurea .....	19 .....		MUT	
<i>2-Methyl pentane, see Hexane (all isomers)</i> .....	31 .....			HXS (ALK/HXA/IHA/ NHX).
2-Methyl-1,5-pantanediamine .....	7 .....		MPM	
<i>2-Methyl-1-pentene, see Hexene (all isomers)</i> .....	30 .....		MPN	HEX (HXE/HXT/HXU/ HXV/MTN).
<i>4-Methyl-1-pentene, see Hexene (all isomers)</i> .....	30 .....		MTN	HEX (HXE/HXT/HXU/ HXV/MPN).
Methyl tert-pentyl ether, <i>see</i> tert-Amyl methyl ether .....	41 .....		AYE.	
2-Methyl-1,3-propanediol .....	20 .....		MDL	
Methyl propyl ketone .....	18 .....		MKE	
<i>Methylpyridine, see the Methylpyridines</i> .....	9 .....		MPQ	MPE/MPF/MPR.
2-Methylpyridine * .....	9 .....	3	MPR	MPE/MPF/MPQ.
3-Methylpyridine * .....	9 .....	3	MPE	MPF/MPQ/MPR.
4-Methylpyridine * .....	9 .....	3	MPF	MPE/MPQ/MPR.
N-Methyl-2-pyrrolidone .....	9 .....	2	MPY	
Methyl salicylate .....	34 .....		MES	
alpha-Methylstyrene .....	30 .....		MSR	
3-(Methylthio)propionaldehyde .....	19 .....		MTP	
Metolachlor .....	34 .....		MCO	
Microsilica slurry .....	4 .....		MOS	
Milk .....	43 .....		MLK	
Mineral spirits .....	33 .....		MNS	
Mixed C4 Cargoes .....	30 .....		MIX	
Molasses .....	20 .....		MOL	MON.
Molasses residue (from fermentation) .....	0 .....	1	MON	MOL.
Molybdenum polysulfide long-chain alkyl dithiocarbamide complex* .....	0 .....	1, 3	MOP	
Monochlorodifluoromethane .....	36 .....		MCF	
<i>Monoethanolamine, see Ethanolamine</i> .....	8 .....		MEA	
<i>Monoisopropanolamine, see Isopropanolamine</i> .....	8 .....			MPA (PLA/PLX), EAM (EAN/EAO).
<i>Monoethylamine, see Methylamine</i> .....	7 .....			
Morpholine .....	7 .....	2	MPL	
Motor fuel anti-knock compound (containing lead alkyls) .....	0 .....	1	MFA	
MTBE, <i>see</i> Methyl tert-butyl ether .....	41 .....		MBE.	
Myrcene .....	30 .....		MRE	
Naphtha:				
Aromatic .....	33 .....		NAR	
Coal tar solvent .....	33 .....		NCT	
Heavy .....	33 .....		NAG	
Paraffinic .....	33 .....		NPF	
Petroleum .....	33 .....		PTN	
Solvent .....	33 .....		NSV	
Stoddard solvent .....	33 .....		NSS	
Varnish Makers' and Painters' .....	33 .....		NVM	
Naphthalene (molten*) .....	32 .....	3	NTM	
Naphthalene sulfonic acid-Formaldehyde copolymer, sodium salt solution .....	0 .....	1	NFS	
Naphthalene sulfonic acid, sodium salt solution .....	34 .....		NSB	NSA.
Naphthenic acid .....	4 .....		NTI	
Naphthenic acid, sodium salt solution .....	43 .....		NTS	
Neodecanoic acid .....	4 .....		NEA	DCO/NAT.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Nitrating acid (mixture of Sulfuric and Nitric acids) .....	0	1	NIA	
Nitric acid (70% and over)* .....	3	2, 3	NCE	NAC/NCD.
Nitric acid (less than 70%) .....	3	2	NCD	NAC/NCE.
Nitrolotriacetic acid, trisodium salt solution* .....	34	3	NCA	
Nitrobenzene .....	42	.....	NTB	
<i>o-Nitrochlorobenzene, see o-Chloronitrobenzene</i> .....	42	.....	NTE	CNO (CNP).
Nitroethane .....	42	.....	NNL	NNM/NNO/NPM/NPN/ NPP/NTE.
Nitroethane(80%)/Nitropropane (20%)* .....	42	2, 3	NNO	NNL/NNM/NPM/NPN/ NPP/NTE.
Nitroethane/1-Nitropropane (each 15% or more) mixture .....	42	2	NNO	NNL/NNO/NPM/NPN/ NPP/NTE.
Nitrogen .....	0	1	NXX	
Nitrophenol (mixed isomers) .....	42	.....	NPX	NIP/NPH/NPX.
<i>o</i> -Nitrophenol (molten) .....	0	1, 2	NTP	NIP/NPH/NPX.
1-or 2-Nitropropane .....	42	.....	NPM	NPN/NPP.
Nitropropane (60%)/Nitroethane (40%) mixture .....	42	.....	NNM	NNL/NNO/NPM/NPN/ NPP/NTE.
<i>o</i> - or <i>p</i> -Nitrotoluenes* .....	42	3	NIT	NIE/NTR/NTT.
<i>Nonane (all isomers), see Alkanes (C6-C9)</i> .....	31	.....	NAX	ALK (NAN).
Nonanoic acid (all isomers) .....	4	.....	NNA	NAI/NIN.
Nonanoic/Tridecanoic acid mixture .....	4	.....	NAT	NAI/NIN/NNA.
<i>Non-edible industrial grade palm oil, see Oil, misc: Palm, non-edible industrial grade.</i> .....	34	.....	OPB.	
Nonene (all isomers) .....	30	.....	NOO	NNE/NON/OAM/OFX/ OFY.
Nonyl acetate .....	34	.....	NAE	
Non-noxious Liquid Substance, (12) n.o.s. Cat OS .....	0	1	NOL	
Nonyl alcohol (all isomers) .....	20	2	NNS	ALR/DBC>NNI/NNN. AKB.
<i>Nonyl/benzene, see Alkyl(C9+)-benzenes</i> .....	32	.....		
Nonyl methacrylate monomer .....	14	.....	NMA	
Nonyl phenol .....	21	.....	NNP	
Nonylphenol (48–62%)/Phenol (42–48%)/Dinonylphenol (1–10%) mixture .....	21	.....	NYL	
<i>Nonyl phenol poly(4+)-ethoxylate, see Alkyl (C7-C11) phenol poly (4–12) ethoxylate.</i> .....	40	.....	NPE	APN.
<i>Nonyl phenol sulfide (90% or less) solution, see Alkyl phenol sulfide (C8-C40).</i> .....	34	.....		AKS (NPS).
Noxious Liquid Substance, n.o.s. (NLS') .....	0	1		
<i>1-Octadecanol, see Stearyl alcohol</i> .....	20	.....		SYL (ALY/ASY).
<i>1-Octadecene, see the olefin or alpha-olefin entries</i> .....	30	.....		OAM/OFZ.
Octadecenoamide solution .....	10	.....	ODD	
<i>Octadecenol, see Alcohols (C13+)</i> .....	20	.....		ALY (AYL/ASY/OYL).
Octamethylcyclotetrasiloxane* .....	34	3	OSA	
<i>Octane (all isomers), see Alkanes (C6-C9)</i> .....	31	.....	OAX	ALK (IOO/OAN).
Octanoic acid (all isomers) .....	4	.....	OAY	EHO/OAA.
Octanol (all isomers) .....	20	2	OCX	EHX/OPA/OTA.
Octene (all isomers) .....	30	2	OTX	OAM/OFC/OFY/OFW/ OTE.
n-Octyl acetate .....	34	.....	OAF	OAE.
<i>Octyl alcohol, see Octanol (all isomers)</i> .....	20	2		OCX (EHX/IOA/OTA).
Octyl aldehydes .....	19	.....	OAL	EHA/IC//OLX.
<i>Octylbenzenes, see Alkyl (C3-C4) benzenes</i> .....	32	.....		AKD.
Octyl decyl adipate .....	34	.....	ODA	
n-Octyl Mercaptan .....	34	.....	OME	
<i>Octyl nitrates (all isomers), see Alkyl (C7-C9) nitrates</i> .....	34	2	ONE	AKN.
Octyl phenol .....	21	.....	OPH	
<i>Octyl phthalate, see Dialkyl (C7-C13) phthalates</i> .....	34	.....		DAH (DIE/DIO/DLK/ DOP).
Oil, edible:				
Beechnut .....	34	.....	OBN	VEO.
Castor .....	34	.....	OCA	VEO.
Cocoa butter .....	34	.....	OCB	VEO.
Coconut .....	34	2	OCC	VEO.
Cod liver .....	34	.....	OCL	AFN.
Corn .....	34	.....	OCO	VEO.
Cotton seed .....	34	.....	OCS	VEO.
Fish .....	34	2	OFS	AFN.
Groundnut .....	34	.....	OGN	VEO.
Hazelnut .....	34	.....	OHN	VEO.
Illipe .....	34	.....	ILO	VEO.
Lard .....	34	.....	OLD	AFN.
<i>Maize, see Oil, edible: Corn</i> .....	34	.....		OCO (VEO).
Mango kernel* .....	34	3	MKO	
Nutmeg butter .....	34	.....	ONB	VEO.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Olive .....	34		OOL	VEO.
Palm .....	34	2	OPM	VEO.
Palm kernel .....	34		OPO	VEO.
Palm kernel olein .....	34		PKO	VEO.
Palm kernel stearin .....	34		PKS	VEO.
Palm mid fraction .....	34		PFM	VEO.
Palm olein .....	34		PON	VEO.
Palm stearin .....	34		PMS	VEO.
Peanut .....	34		OPN	VEO.
Poppy .....	34		OPY	VEO.
Poppy seed .....	34		OPS	VEO.
Raisin seed .....	34		ORA	VEO.
Rapeseed (low erucic acid containing less than 4% free fatty acids).	34		ORO	ORP/VEO.
Rice bran .....	34		ORB	VEO.
Safflower .....	34		OSF	VEO.
Salad .....	34		OSL	VEO.
Sesame .....	34		OSS	VEO.
Shea butter .....	34		OSH	VEO.
Soya bean .....	34		OSB	VEO.
<i>Sunflower, see Oil, edible Sunflower seed</i> .....	34			OSN (VEO).
Sunflower seed .....	34		OSN	VEO.
Tucum .....	34		OTC	VEO.
Vegetable .....	34		OVG	VEO.
Walnut .....	34		OWN	VEO.
Oil, fuel:				
No. 1 .....	33		OON	
No. 1-D .....	33		OOD	
No. 2 .....	33		OTW	
No. 2-D .....	33		OTD	
No. 4 .....	33		OFR	
No. 5 .....	33		OFV	
No. 6 .....	33		OSX	
Oil, misc:				
Acid mixture from soybean, corn (maize) and sunflower oil refining.	34		AOM	
Aliphatic .....	33		OML	
Animal .....	34		OMA	AFN.
Aromatic .....	33		OMR	
Camellina .....	34		OCI	
Cashew nut shell (untreated) .....	4		OCN	
Clarified .....	33		OCF	
Coal .....	33		OMC	
Coconut fatty acid .....	34	2	CFA	
Coconut oil, fatty acid methyl ester .....	34		OCM	
Cotton seed oil, fatty acid .....	34		CFY	
Crude .....	33		OFA	
Diesel .....	33		ODS	
Disulfide .....	0	1	ODI	
Gas, cracked .....	33		GOC	
Gas, high pour .....	33		OGP	
Gas, low pour .....	33		OGL	
Gas, low sulfur .....	33		OGS	
Heartcut distillate .....	33		OHD	
Jatropha .....	34		JTO	
Lanolin .....	34		OLL	AFN.
Linseed .....	33		OLS	
Lubricating .....	33		OLB	
Mineral .....	33		OMN	
Mineral seal .....	33		OMS	
Motor .....	33		OMT	
Neatsfoot .....	33		ONF	AFN.
Oiticica .....	34		OOI	
Palm acid .....	34		PLM	
Palm fatty acid distillate .....	34		PFD	
Palm oil fatty acid methyl ester .....	34		OPE	
Palm kernel acid .....	34		OPK	
Palm kernel fatty acid distillate .....	34		PNG	
Palm, non-edible industrial grade .....	34		OPB	
Penetrating .....	33		OPT	
Perilla .....	34		OPR	
Pilchard .....	34		OPL	AFN.
Pine .....	33		OPI	PNL.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Rape seed fatty acid methyl esters *	34	3	ORP	
Residual .....	33	.....	ORL	
Resin, distilled .....	34	.....	ORR	
Road .....	33	.....	ORD	
Rosin .....	33	.....	ORN	
Seal .....	34	.....	OSE	
Soapstock .....	34	.....	OIS	
Soyabean (epoxidized) .....	34	.....	OSC	
Soyabean fatty acid methyl ester .....	34	.....		OST.
Spindle .....	33	.....	OSD	
Tall .....	34	.....	OTL	OTI/OTJ.
Tall, crude .....	34	2	OTI	OTJ/OTL.
Tall, distilled .....	34	2	OTJ	OTI/OTL.
Tall, fatty acid .....	34	2	OTT	
Tall fatty acid (resin acids less than 20%) .....	34	2	OTK	OTT.
Tall pitch .....	34	.....	OTP	
Transformer .....	33	.....	OTF	
Tung .....	34	.....	OTG	
Turbine .....	33	.....	OTB	
Vacuum gas oil .....	32	.....	OVC	
<i>Clearamide solution, see Octadecenamide solution</i> .....	10	.....		ODD.
Olefin-Alkyl ester copolymer (molecular weight 2000+) .....	34	.....	OCP	
Olefin mixture (C7-C9) C8 rich, stabilized* .....	30	3	OFC	OFW/OFY/OFX.
Olefin mixtures (C5-C7)* .....	30	3	OFX	OAM/OFC/OFW/OFX/ OFZ.
Olefin mixtures (C5-C15)* .....	30	3	OFY	OAM/OFC/OFW/OFX/ OFZ.
Olefins (C13+, all isomers) .....	30	.....	OFZ	OAM/OFW.
alpha-Olefins (C6-C18) mixtures .....	30	.....	OAM	OFC/OFW/OFX/OFY/ OFZ.
Oleic acid .....	34	.....	OLA	
Oleum .....	0	1, 2	OLM	SAC/SFX.
Oleyl alcohol, <i>see</i> Alcohols (C13+) .....	20	.....	OYL	ALY (ASY).
Oleylamine .....	7	.....	OLY	
Olive oil, <i>see</i> Oil, edible: Olive .....	34	.....	OOL (VEO).	
Orange juice (concentrated)* .....	0	1, 3	OJC	OJN.
Orange juice (not concentrated)* .....	0	1, 3	OJN	OJC.
Organomolybdenum amide .....	10	.....	OGA	
ÖRIMULSION, <i>see</i> Asphalt emulsion .....	33	.....	ASQ.	
Oxalkylated alkyl phenol formaldehyde .....	33	.....	OPF	
Oxygenated aliphatic hydrocarbon mixture* .....	0	1, 3	PAH	
Palm acid oil, <i>see</i> Oil, misc: Palm acid* .....	34	3		PLM.
Palm fatty acid distillate, <i>see</i> Oil, misc: Palm fatty acid distillate* .....	34	3		PFD.
Palm kernel acid oil, <i>see</i> Oil, misc: Palm kernel acid .....	34	.....		PNO.
Palm kernel acid oil, methyl ester, <i>see</i> Oil, misc: Palm kernel acid, methyl ester .....	34	.....		PNF.
Palm kernel oil fatty acid distillate, <i>see</i> Oil, misc: Palm kernel fatty acid distillate .....	34	.....		PNG.
Palm kernel oil, <i>see</i> Oil, edible: Palm kernel .....	34	.....		OPO (VEO).
Palm kernel olein, <i>see</i> Oil, edible: Palm kernel olein* .....	34	3		PKO (VEO).
Palm kernel stearin, <i>see</i> Oil, edible: Palm kernel stearin* .....	34	3		PKS (VEO).
Palm mid fraction, <i>see</i> Oil, edible: Palm mid fraction* .....	34	3		PFM (VEO).
Palm oil, <i>see</i> Oil, edible: Palm* .....	34	3		OPM (VEO).
Palm oil fatty acid methyl ester, <i>see</i> Oil, misc: Palm fatty acid methyl ester* .....	34	3		OPE.
Palm olein, <i>see</i> Oil, edible: Palm Olein* .....	34	3		PON (VEO).
Palm stearin, <i>see</i> Oil, edible: Palm stearin .....	34	.....		PMS (VEO).
Parachlorobenzotrifluoride .....	32	.....	PBF	
n-Paraffins (C10-C20), <i>see</i> n-Alkanes (C10+) .....	31	.....	PFN	ALJ.
Paraffin wax, <i>see</i> Waxes: Paraffin* .....	31	3		WPF.
Paraldehyde .....	19	.....	PDH	
Paraldehyde-Ammonia reaction product .....	9	.....	PRB	
Pentachloroethane .....	36	.....	PCE	
Pentadecanol, <i>see</i> Alcohols (C13+) .....	20	.....	PDC	ALY.
1,3-Pentadiene .....	30	.....	PDE	PDN.
1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures* .....	30	3	PMM	
Pentaethylene glycol, <i>see</i> Polyethylene glycols .....	20	.....		PEG.
Pentaethylene glycol methyl ether, <i>see</i> Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether .....	40	.....		PAG.
Pentaethylenehexamine .....	7	.....	PEN	
Pentaethylenehexamine/Tetraethylengenetamine mixture .....	7	.....	PEP	
Pentane (all isomers) .....	31	.....	PTY	IPT/PTA.
Pentanoic acid .....	4	.....	POC.	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture .....	4	.....	POJ	POC.
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.	43	.....		DYS.
Pentene (all isomers) .....	30	.....	PTX	PTE.
n-Pentyl propionate .....	34	.....	PPE	
Perchloroethylene .....	36	2	PER	TTE.
Petrolatum .....	33	.....	PTL	
Phenol .....	21	2	PHN	PNS.
Phenol solutions (2% or less) .....	43	.....	PNS	PHN.
1-Phenyl-1-xylyl ethane .....	32	.....	PXE	
Phosphate esters .....	34	.....	PZE	
Phosphate esters, alkyl (C12-C14) amine .....	7	.....	PEA	
Phosphoric acid .....	1	.....	PAC	
Phosphorus, yellow or white .....	0	1	PPW	PPB/PPR.
Phosphosulfurized bicyclic terpene .....	0	1	PBT	
Phthalate based polyester polyol .....	0	1, 2	PBE	
Phthalic anhydride (molten) .....	11	.....	PAN	
alpha-Pinene .....	30	.....	PIO	PIB/PIN.
beta-Pinene .....	30	.....	PIP	PIN/PIO.
Pine oil, see Oil, misc: Pine .....	33	.....	PNL	OPI.
Piperazine (crude) .....	34	.....	PZC	PPZ/PIZ.
Piperazine (70% or less) .....	30	.....	PIZ	PPB/PPZ.
Piperylene concentrate .....	30	.....	PIC	PDE/PDN.
Polyacrylic acid solution (40% or less) .....	43	.....	PYA	
Polyalkenyl succinic anhydride amine .....	7	.....	PSN	
Polyalkyl acrylate .....	14	.....	PAY	
Polyalkyl (C18-C22) acrylate in Xylene .....	14	.....	PIX	
Polyalkyl alkenamine succinimide, molybdenum oxysulfide .....	7	.....	PSO	
Polyalkylene glycols/Polyalkylene glycol monoalkyl ether mixtures .....	40	.....	PPX	
Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40	.....	PGB	PAG.
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....	40	.....	PAG	
<i>Including:</i>				
Diethylene glycol butyl ether.				
Diethylene glycol ethyl ether.				
Diethylene glycol n-hexyl ether.				
Diethylene glycol methyl ether.				
Diethylene glycol propyl ether.				
Dipropylene glycol butyl ether.				
Dipropylene glycol methyl ether.				
Polyalkylene glycol butyl ether.				
Polyethylene glycol monoalkyl ether.				
Polypropylene glycol methyl ether.				
Triethylene glycol butyl ether.				
Triethylene glycol ethyl ether.				
Triethylene glycol methyl ether.				
Tripropylene glycol methyl ether.				
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate .....	34	.....	PAF	
<i>Including:</i>				
Diethylene glycol butyl ether acetate.				
Diethylene glycol ethyl ether acetate.				
Diethylene glycol methyl ether acetate.				
Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures .....	40	.....	PPX	
Polyalkylene oxide polyol .....	20	.....	PAO	
Polyalkyl (C10-C20) methacrylate .....	14	.....	PMT	PYY.
Polyalkyl methacrylate in mineral oil .....	14	.....	PYY	PMT.
Polyalkyl(C10-C18) methacrylate/Ethylene-Propylene copolymer mixture .....	14	.....	PEM	
Polyalpha olefins .....	31	.....	PYO	
Polyaluminum chloride solution .....	1	.....	PLS	
Polybutadiene, hydroxyl terminated .....	20	.....	PHT	
Polybutene .....	33	.....	PLB	
Polybutenyl succinimide .....	10	.....	PBS	
Polycarboxylic ester (C9+), see Ditridecyl adipate .....	34	.....		DTY.
Poly(2+)-cyclic aromatics .....	32	.....	PCA	DMP.
Polydimethylsiloxane, see Dimethylpolysiloxane .....	34	.....		
Polyether, borated .....	41	.....	PED	
Polyether (molecular weight 1350+) .....	41	.....	PYR	
Polyether polyols .....	41	.....	PEO	
Polyethylene glycol .....	40	.....	PEG	
Polyethylene glycol dimethyl ether .....	40	.....	PEF	
Poly (ethylene glycol) methylbutenyl ether (MW >1000) .....	40	.....	PBN	
Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40	.....	PEE	PAG.

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Polyethylene polyamines .....	7	2	PEB	PEY.
Polyethylene polyamines (more than 50% C5-C20 Paraffin oil)* .....	7	2,3	PEY	PEB.
Polyferric sulfate solution .....	34	.....	PSS	
Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide). ....	20	2	PGT	PGS.
Polyglycerol .....	20	.....	PGL	
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)* .....	7	3	PIG	PIM.
Polyisobuteneamine in aliphatic (C10-C14) solvent .....	7	.....	PIB	PIA.
Polyisobut enyl anhydride adduct .....	11	.....	PBA	
Polyisobut enyl succinimide .....	10	.....	PIS	
Poly(4+)-isobutylene .....	30	.....	PIL	
Polyisobutylene succinic anhydride .....	11	.....	PYS	
Polymerized esters .....	34	.....	PYM	
Poly(methylene polyphenyl isocyanate) .....	12	.....	PPI	
Polyolefin (molecular weight 300+) .....	31	.....	PMW	PLF.
Polyolefin amide alkeneamine (C17+) .....	33	.....	POH	POD.
Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkenamine (C17+). ....	33	.....	POD	POH.
Polyolefin amide alkeneamine borate (C28-C250) .....	34	.....	PAB	
Polyolefin amide alkeneamine in mineral oil .....	33	.....	PLK	
Polyolefin amide alkeneamine/Molybdenum oxy sulfide mixture .....	7	.....	PMO	
Polyolefin amide alkeneamine polyol .....	20	.....	PAP	
Polyolefinamine (C28-C250) .....	33	.....	POM	
Polyolefinamine in alkyl(C2-C4) benzenes .....	32	.....	POF	POR.
Polyolefinamine in aromatic solvent* .....	32	3	POR	POF.
Polyolefin aminoester salts (molecular weight 2000+) .....	34	.....	PAE	
Polyolefin anhydride .....	11	.....	PAR	
Polyolefin ester (C28-C250) .....	34	.....	POS	
Polyolefin in mineral oil .....	30	.....	PLF	PMW.
Polyolefin phenolic amine (C28-C250) .....	9	.....	PPH	
Polyolefin phosphorosulfide, barium derivative (C28-C250) .....	34	.....	PPS	
Poly (oxalkylene) alk enyl ether (MW>1000) .....	41	.....	PXY	
Polyoxybutylene alcohol .....	41	.....	PXA	
Poly(20)oxyethylene sorbitan monooleate .....	34	.....	PSM	
Polyoxypropylenediamine (MW 2000) .....	7	.....	PYD	
Poly(5+)-propylene .....	30	.....	PLQ	PLP.
Propylene glycol .....	40	.....	PGC	
Propylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether. ....	40	.....	PGM	PAG.
Polysiloxane .....	34	.....	PSX	
Polysiloxane/White spirit, low (15–20%) aromatic .....	34	.....	PWS	
Potassium chloride solution .....	43	.....	PCU	PCD/PSD.
Potassium chloride solution (10% or more) .....	43	.....	PCS	PCD/PCU.
Potassium chloride solution (less than 26%) .....	43	.....	PSD	CLM/DRL/PCS/PCU.
Potassium formate solutions .....	34	.....	PFR	
Potassium hydroxide solution, see Caustic potash solution .....	5	2	CPS/PTH.	
Potassium oleate .....	34	.....	POE	
Potassium polysulfide/Potassium thiosulfide solution (41% or less) .....	0	1	PYP	PSF/PTF.
Potassium salt of polyolefin acid .....	34	.....	PSP	
Potassium thiosulfate (50% or less) .....	43	.....	PTF	
Propane .....	31	.....	PRP	LPG.
<i>iso</i> -Propanolamine, see Isopropanolamine .....	8	.....	PLA	MPA (PAX/PLA).
n-Propanolamine .....	8	.....	PLA	MPA/PAX.
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution*. ....	0	1, 3	PLN	
beta-Propiolactone* .....	18	3	PLT	
Propionaldehyde .....	19	.....	PAD	
Propionic acid .....	4	.....	PNA	
Propionic anhydride .....	11	.....	PAH	
Propionitrile .....	37	.....	PCN	
<i>n</i> -Propoxypropanol, see Propylene glycol monoalkyl ether .....	40	.....	PXP	PGE.
<i>n</i> -Propyl acetate .....	34	.....	PAT	IAC.
<i>n</i> -Propyl alcohol .....	20	2	PAL	IPA.
<i>n</i> -Propylamine .....	7	.....	PRA	IPo/IPP/IPQ.
<i>iso</i> -Propylamine solution, see Isopropylamine (70% or less) solution .....	7	.....	PBY	IPQ (IPo/IPP/PRA).
Propylbenzenes, see Alkyl (C3-C4) benzenes .....	32	.....		AKC (CUM/PBZ).
<i>iso</i> -Propyl cyclohexane, see Isopropylcyclohexane .....	34	.....		IPX.
Propylene .....	30	.....	PPL	
Propylene-Butylene copolymer .....	30	.....	PBP	
Propylene carbonate .....	34	.....	PLC	
Propylene dimer .....	30	.....	PDR	
Propylene glycol .....	20	2	PPG	
Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether .....	40	.....	PGD	PGE.

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<i>Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether .....</i>	40		PGY	PGE.
<i>Propylene glycol methyl ether, see Propylene glycol monoalkyl ether .....</i>	40		PME	PGE.
Propylene glycol methyl ether acetate .....	34		PGN	
Propylene glycol monoalkyl ether .....	40		PGE	
<i>Including:</i>				
<i>n-Propoxypropanol.</i>				
<i>Propylene glycol n-butyl ether.</i>				
<i>Propylene glycol ethyl ether.</i>				
<i>Propylene glycol methyl ether.</i>				
<i>Propylene glycol propyl ether.</i>				
Propylene glycol phenyl ether .....	40		PGP	
<i>Propylene glycol propyl ether, see Propylene glycol monoalkyl ether .....</i>				PGE.
Propylene oxide .....	16		POX	
Propylene trimer .....	30		PTT	
Propylene trimer .....	30		PTR	
<i>Pseudocumene, see Trimethylbenzene (all isomers) .....</i>	32			TMB/TMD/TME/TRE.
Pyridine .....	9		PRD	
<i>Pyridine bases, see Paraldehyde-Ammonia reaction product .....</i>	9			PRB.
Pyrolysis gasoline (containing Benzene)* .....	32	3	PYG	GPY.
<i>Rapeseed oil, see Oil, edible: Rapeseed .....</i>	34			ORO (VEO).
<i>Rapeseed oil (low erucic acid containing less than 4% free fatty acids), see Oil, edible: Rapeseed, (low erucic acid containing less than 4% free fatty acids)*.</i>	34	3		ORO (VEO).
<i>Rapeseed oil fatty acid methyl esters, see Oil, misc: Rapeseed fatty acid methyl esters*.</i>	34	3		RSO.
Refrigerant gases .....	0	1	RFG	
<i>Resin oil, distilled, see Oil, misc: Resin, distilled* .....</i>	33	3		ORR (ORS).
Rice bran oil, see Oil, misc: Rice bran .....	34			ORB.
Rosin, see Oil, misc: Rosin .....	33			ORN.
ROUNDUP .....	7		RUP	GIO.
<i>Rum, see Alcoholic beverages .....</i>	20			ABV.
<i>Safflower oil, see Oil, edible: Safflower .....</i>	34			OSF (VEO)
Sewage sludge .....	43		SWS	
<i>Shea butter, see Oil, edible: Shea butter* .....</i>	34	3		OSH (VEO).
Silica slurry .....	43		SLC	
Siloxanes .....	34		SLX	
Sludge, treated .....	43		SWA	
Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide)			SAW	SAO/SAP/SAQ/SAY.
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide) .....	5		SAQ	SAO/SAP/SAW/SAY.
Sodium acetate, Glycol, Water mixture (1% or less Sodium hydroxide) (if non-flammable or non-combustible).	5	2	SAY	SAO/SAP/SAQ/SAY.
Sodium acetate solutions .....	34		SAN	
Sodium alkyl (C14-C17) sulfonates (60–65% solution) .....	34		SSA	AKA/AKE/SSU.
Sodium aluminate solution .....	5		SAV	SAU.
Sodium aluminate solution (45% or less) .....	5		SAU	SAV.
Sodium aluminosilicate slurry .....	34		SLR	
Sodium benzoate solution .....	34		SBN	SBM.
Sodium bicarbonate solution (less than 10%) .....	34		SBC	
Sodium borohydride (15% or less)/Sodium hydroxide solution .....	5		SBX	CSS/SBH/SBI/SHD.
Sodium bromide solution (less than 50%)* .....	43	3	SBL	SBR.
Sodium carbonate solution .....	5		SCE	
Sodium chlorate solution (50% or less) .....	0	1, 2	SDD	SDC.
Sodium cyanide solution .....	5		SCO	SCN/SCS.
Sodium dichromate solution (70% or less) .....	0	1, 2	SDL	SCR.
Sodium hydrogen sulfide (6% or less)/Sodium carbonate (3% or less) solution.	0	1, 2	SSS	SCE/SHW.
Sodium hydrogen sulfite solution (45% or less) .....	43		SHY	SHX.
Sodium hydrosulfide/Ammonium sulfide solution .....	5	2	SSA	ASF/ASS.
Sodium hydrosulfide solution (45% or less) .....	5	2	SHR	
<i>Sodium hydroxide solution, see Caustic soda solution .....</i>	5	2		CSS (SHD).
Sodium hypochlorite solution (15% or less) .....	5		SHP	SHC/SHQ.
Sodium hypochlorite solution (20% or less) .....	5		SHQ	SHC/SHP.
Sodium lignosulfonate solution .....	43		SLG	LNL.
Sodium long-chain alkyl salicylate (C13+)	34		SLS	
<i>Sodium-2-mercaptopbenzothiazol solution, see Mercaptobenzothiazol, sodium salt solution.</i>	5			SMB.
Sodium methoxide (25% in methanol) .....	5		SMO	
Sodium methylate 21–30% in methanol*	20	3	SMT	SMS.
<i>Sodium naphthalene sulfonate solution, see Naphthalene sulfonic acid (40% or less), sodium salt solution (40% or less).</i>	34		SNS	NSA (NSB).
<i>Sodium naphthenate solution, see Naphthenic acid, sodium salt solution ..</i>	34			NTS.
Sodium nitrite solution .....	5		SNI	SNT.
Sodium petroleum sulfonate .....	34		SPS	

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Sodium polyacrylate solution .....	43 .....		SOO	SOP.
Sodium poly(4+)-acrylate solution .....	43 .....	2	SOP	SOO.
<i>Sodium salt of Ferric hydroxyethylmethylenediaminetetraacetic acid solution, see Ferric hydroxyethylmethylenediaminetetraacetic acid, trisodium salt solution.</i>	34 .....		STA	FHX.
Sodium silicate solution .....	43 .....		SSN	SSC.
Sodium sulfate solution* .....	34 .....	3	SST	SSO.
Sodium sulfide/Hydrosulfide solution ( $H_2S$ 15 ppm or less) .....	0 .....	1, 2	SSH	SDS/SHR/SSI/SSJ.
Sodium sulfide/Hydrosulfide solution ( $H_2S$ greater than 15 ppm but less than 200 ppm) .....	0 .....	1, 2	SSI	SDS/SHR/SSH/SSJ.
Sodium sulfide/Hydrosulfide solution ( $H_2S$ greater than 200 ppm) .....	0 .....	1, 2	SSJ	SDS/SHR/SSH/SSI.
Sodium sulfide solution (15% or less) .....	43 .....		SDR	SDS.
Sodium sulfite solution (25% or less) .....	43 .....		SUP	SSF/SUS.
Sodium thiocyanate solution (56% or less) .....	0 .....	1, 2	STS	SCY.
Sorbitol solution .....	20 .....		SBU	SBT.
<i>Soyabean fatty acid methyl ester, see Oil, misc: Soyabean fatty acid methyl ester.</i>	34 .....			OST.
<i>Soyabean oil, see Oil, edible: Soyabean</i> .....	34 .....			OSB (VEO).
<i>Stearic acid, see Fatty acids (saturated, C14+)</i> .....	34 .....		SRA	FAD (FAB/FAE/FDI/FDT).
Stearyl alcohol .....	20 .....		SYL	ALY/ASY.
<i>Stoddard solvent, see Naphtha: Stoddard solvent</i> .....	33 .....			NSS.
Styrene monomer .....	30 .....		STY	
Sulfohydrocarbon (C3-C8) .....	33 .....		SFO	
Sulfohydrocarbon, long-chain (C18+) alkylamine mixture .....	7 .....		SFX	
Sulfolane .....	39 .....		SFL	
Sulfonated polyacrylate solutions .....	43 .....	2	SPA	
Sulfur (molten) .....	0 .....	1, 2	SXX	
Sulfur dioxide .....	0 .....	1	SFD	
Sulfuric acid .....	2 .....	2	SFA	SAC.
Sulfuric acid, spent .....	2 .....	2	SAC	SFA.
Sulfurized fat (C14-C20) .....	33 .....		SFT	
Sulfurized polyolefinamide .....	7 .....		SPY	
Sulfurized polyolefinamide alkene(C28-C250) amine .....	7 .....		SPO	
<i>Sunflower seed oil, see Oil, edible: Sunflower seed</i> .....	34 .....			OSN (VEO).
<i>Tall oil, see Oil, misc: Tall</i> .....	34 .....			OTL (OTI/OTJ).
<i>Tall oil, crude, see Oil, misc: Tall, crude*</i> .....	34 .....	2, 3		OTI (OTJ/OTL).
<i>Tall oil, distilled, see Oil, misc: Tall, distilled*</i> .....	34 .....	3		OTJ (OTI/OTL).
Tall oil, fatty acid, see Oil, misc: Tall fatty acid .....	34 .....			OTT.
<i>Tall oil fatty acid (resin acids less than 20%), see Oil, misc: Tall oil fatty acid (resin less than 20%).</i>	34 .....	2		OTK (OTT).
Tall oil soap (crude) .....	4 .....		TOR	TOS.
<i>Tall oil, pitch, see Oil, misc: Tall pitch*</i> .....	34 .....	3		OTP (OTI/OTJ/OTL).
Tallow .....	34 .....	2	TLO	
<i>Tallow alcohol, see Alcohols (C13+)</i> .....	20 .....	2	TFA	ALY (ASY).
Tallow alkyl nitrile .....	37 .....		TAN	
Tallow fatty acid .....	34 .....	2	TFD	
<i>Tallow fatty alcohol, see Alcohols (C13+)</i> .....	20 .....		TFA	ALY.
TAME, <i>see</i> tert-Amyl methyl ether .....	40 .....			AYE.
Tertiary butyl phenols .....	21 .....		BLT	BTP.
1,1,2,2-Tetrachloroethane .....	36 .....		TEC	TEE.
<i>Tetradecanol, see Alcohols (C13+)</i> .....	20 .....		TTN	ALY.
<i>Tetradecene, see the olefins or alpha-olefin entries</i> .....	30 .....			OAM/OFY/OFW/OFZ/TDD.
<i>Tetradecylbenzene, see Alkyl(C9+) benzenes</i> .....	32 .....		TDB	AKB.
Tetraethylene glycol .....	40 .....		TTG	PAG.
<i>Tetraethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>	40 .....			
Tetraethylene pentamine .....	7 .....	2	TTP	
Tetraethyl silicate monomer/oligomer (20% in ethanol)* .....	0 .....	1, 3	TSM	
Tetrahydrofuran .....	41 .....		THF	
Tetrahydronaphthalene .....	32 .....		THN	
Tetramethylbenzene (all isomers) .....	32 .....		TTC	TTB.
<i>Tetrapropylbenzene, see Alkyl(C9+)benzenes</i> .....	32 .....			AKB.
<i>Tetrasodium salt of ethylenediaminetetraacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution.</i>	43 .....			EDS.
Titanium dioxide slurry .....	43 .....		TDS	
Titanium tetrachloride .....	2 .....		TTT	
Toluene .....	32 .....		TOL	
Toluenediamine .....	9 .....		TDA	
Toluene diisocyanate .....	12 .....		TDJ	TDI/TDJ.
o-Toluidine .....	9 .....		TLI	TOD/TOI.
<i>Triarylpophosphate, see Triisopropylated phenyl phosphates</i> .....	34 .....		TRA	TPL.

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Tributyl phosphate .....	34 .....		TBP	
1,2,3-Trichlorobenzene (molten)* .....	36 .....	3	TBZ	TCB.
1,2,4-Trichlorobenzene .....	36 .....		TCB	TBZ.
1,1,1-Trichloroethane .....	36 .....	2	TCE	TCM.
1,1,2-Trichloroethane .....	36 .....		TCM	TCE.
Trichloroethylene .....	36 .....	2	TCL	
1,2,3-Trichloropropane .....	36 .....	2	TCN	
1,1,2-Trichloro-1,2,2-trifluoroethane .....	36 .....		TTF	
Tricresyl phosphate (containing 1% or more ortho-isomer)* .....	34 .....	3	TCO	TCP/TCQ.
Tricresyl phosphate (containing less than 1% ortho-isomer)* .....	34 .....	3	TCP	TCO/TCQ.
Tridecane (all isomers), see Alkanes (C10+) (all isomers) .....	31 .....		TRD	ALV (ALJ).
Tridecanoic acid .....	34 .....		TDO	
Tridecanol, see Alcohols (C13+) .....	20 .....		TDN	ALY (ASK/ASY/AHK/LAL).
Tridecene, see Olefins (C13+) .....	30 .....		TRD	OAM/OFY/OFW/OFZ/TDC.
Tridecyl acetate .....	34 .....		TAE	
Tridecylbenzene, see Alkyl(C9+) benzenes .....	32 .....		TRB	AKB.
Triethanolamine .....	8 .....	2	TEA	
Triethylamine .....	7 .....		TEN	
Triethylbenzene .....	32 .....		TEB	
Triethylene glycol .....	40 .....		TEG	
Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether. ....	40 .....		TBE	PAG.
Triethylene glycol butyl ether mixture .....	40 .....		TBD	
Triethylene glycol di-(2-ethylbutyrate) .....	34 .....		TGD	
Triethylene glycol ether mixture .....	40 .....		TYM	
Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether. ....	40 .....		TGE	PAG.
Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether. ....	40 .....		TGY	PAG.
Triethylenetetramine .....	7 .....	2	TET	
Triethyl phosphate .....	34 .....		TPS	
Triethyl phosphite .....	34 .....	2	TPI	
Triisobutylene .....	30 .....		TIB	
Triisooctyl trimellitate .....	34 .....		TIS	
Triisopropanolamine .....	8 .....		TIP	
Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Trisopropanolamine salt solution. ....	43 .....			DTI.
Triisopropylated phenyl phosphates .....	34 .....		TPL	
Trimethylacetic acid .....	4 .....		TAA	
Trimethylamine solution (30% or less) .....	7 .....		TMT	TMA.
Trimethylbenzene (all isomers) .....	32 .....		TRE	TMB/TMD/TME.
Trimethyl nonanol, see Dodecanol .....	20 .....			DDN (ASK/ASY/LAL).
Trimethylol propane polyethoxylated .....	40 .....		TPR	
2,2,4-Trimethyl-1,3-pantanediol disobutyrate .....	34 .....		TMQ	
2,2,4-Trimethyl-1,3-pantanediol-1-isobutyrate .....	34 .....		TMP	
2,2,4-Trimethyl-3-pentanol-1-isobutyrate .....	34 .....		TMR	
1,3,5-Trioxane .....	41 .....	2	TRO	
Triphenylborane (10% or less)/Caustic soda solution .....	5 .....		TPB	
Tripropylene, see Propylene trimer .....	30 .....			PTR.
Tripropylene glycol .....	40 .....		TGC	
Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether. ....	40 .....		TGM	PAG.
Trisodium nitritodiacetate solution, see Nitritodiacetic acid, trisodium salt solution. ....	34 .....		TSO	NCA (TSN).
Trisodium phosphate solution .....	5 .....		TSP	
Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution. ....	43 .....			HET.
Trixylaryl phosphate, see Trixylyl phosphate .....	34 .....			TRP.
Trixylyl phosphate .....	34 .....			TRP.
Tung oil, see Oil, misc: Tung .....	34 .....			OTG
Turpentine .....	30 .....		TPT	
Turpentine substitute, see White spirit (low (15-20%) aromatic) .....	33 .....			WSL (WSP).
Ugarsol CR Solvent 302 SG .....	8 .....		UCS	
Undecane (all isomers), see Alkanes (C10+) (all isomers) .....	31 .....		UDN	ALV (ALJ).
Undecanoic acid .....	4 .....		UDA	
Undecanol, see Undecyl alcohol .....	20 .....			UND (ALR).
Undecene .....	30 .....		UDD	UDC.
1-Undecene .....	30 .....		UDC	UDD.
Undecyl alcohol .....	20 .....		UND	ALR.
Undecylbenzene, see Alkyl(C9+) benzenes .....			UDB	AKB.

**Coast Guard, DHS**

**Pt. 150, Table I, Nt.**

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Urea, Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution.	0	1	UPX	
Urea/Ammonium nitrate solution *	34	3	UAV	ANU/UAS/UAT/UAU.
Urea/Ammonium nitrate solution (containing less than 1% free Ammonia)	43	.....	UAU	ANU/UAS/UAT/UAV.
Urea/Ammonium nitrate solution (containing less than 2% free Ammonia)	6	.....	UAT	ANU/UAS/UAU/UAV.
Urea/Ammonium phosphate solution	43	.....	UAP	
Urea solution	43	.....	USL	URE.
Valeraldehyde (all isomers)	19	.....	VAK	IVA/VAL.
Vanillin black liquor (free alkali content 3% or more)	5	.....	VBL	
Vegetable oils, n.o.s	34	.....	VEO	
<i>Including:</i>				
<i>Beechnut oil.</i>				
<i>Camelina oil.</i>				
<i>Cashew nut shell.</i>				
<i>Castor oil.</i>				
<i>Cocoa butter.</i>				
<i>Coconut oil.</i>				
<i>Corn oil.</i>				
<i>Cottonseed oil.</i>				
<i>Croton oil.</i>				
<i>Groundnut oil.</i>				
<i>Hazelnut oil.</i>				
<i>Ilipe oil.</i>				
<i>Jatropha oil.</i>				
<i>Linseed oil.</i>				
<i>Mango kernel oil.</i>				
<i>Nutmeg butter.</i>				
<i>Oiticica oil.</i>				
<i>Olive oil.</i>				
<i>Palm kernel oil.</i>				
<i>Palm kernel olein.</i>				
<i>Palm kernel stearin.</i>				
<i>Palm mid fraction.</i>				
<i>Palm, non-edible industrial grade.</i>				
<i>Palm oil.</i>				
<i>Palm olein.</i>				
<i>Palm stearin.</i>				
<i>Peanut oil.</i>				
<i>Peel oil (oranges and lemons).</i>				
<i>Perilla oil.</i>				
<i>Pine oil.</i>				
<i>Poppy seed oil.</i>				
<i>Poppy oil.</i>				
<i>Raisin seed oil.</i>				
<i>Rapeseed oil.</i>				
<i>Rapeseed (low erucic acid containing less than 4% free fatty acids).</i>				
<i>Resin, distilled.</i>				
<i>Resin.</i>				
<i>Rice bran oil.</i>				
<i>Rosin oil.</i>				
<i>Safflower oil.</i>				
<i>Salad oil.</i>				
<i>Sesame oil.</i>				
<i>Shea butter.</i>				
<i>Soyabean oil.</i>				
<i>Sunflower seed oil.</i>				
<i>Tall.</i>				
<i>Tall, crude.</i>				
<i>Tall, distilled.</i>				
<i>Tall, pitch.</i>				
<i>Tucum oil.</i>				
<i>Tung oil.</i>				
<i>Walnut oil.</i>				
Vegetable acid oils, n.o.s.	34	.....	VAD	
<i>Including:</i>				
<i>Corn acid oil.</i>				
<i>Cottonseed acid oil.</i>				
<i>Dark mixed acid oil.</i>				
<i>Groundnut acid oil.</i>				
<i>Mixed acid oil.</i>				
<i>Mixed general acid oil.</i>				
<i>Mixed hard acid oil.</i>				

Pt. 150, Table II

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Mixed soft acid oil.</i>				
<i>Rapeseed acid oil.</i>				
<i>Safflower acid oil.</i>				
<i>Soya acid oil.</i>				
<i>Sunflower seed acid oil.</i>				
Vegetable fatty acid distillates*	34	3	VFD	
<i>Including:</i>				
<i>Palm kernel fatty acid distillate.</i>				
<i>Palm oil fatty acid distillate.</i>				
<i>Tall fatty acid distillate.</i>				
<i>Tall oil fatty acid distillate.</i>				
Vegetable protein solution (hydrolyzed) .....	43	.....	VPS	
Vinyl acetate .....	13	2	VAM	
Vinyl chloride .....	35	.....	VCM	
Vinyl ethyl ether .....	13	.....	VEE	
Vinylidene chloride .....	35	.....	VCI	
Vinyl neodecanoate .....	13	2	VND	
Vinyltoluene .....	13	.....	VNT	
Water .....	43	.....	WTR	
Waxes .....				WAX
Candelilla .....	34	.....	WCD	
Carnauba .....	34	.....	WCA	
Paraffin .....	31	.....	WPF	
Petroleum .....	33	.....	WPT	
<i>White spirit, see White spirit (low (15–20%) aromatic) .....</i>	33	.....	WSP	
<i>White spirit (low (15–20%) aromatic) .....</i>	33	.....	WSL	
<i>White spirit (low (15–20%) aromatic) .....</i>	33	.....	WSL	WSP.
<i>Wine, see Alcoholic beverages .....</i>	20	.....	ABV	
Wood lignin with Sodium acetate/oxalate*	0	1, 3	WOL	
Xylenes .....	32	.....	XLX	XLM/XLO/XLP.
Xylenes/Ethylbenzene (10% or more) mixture .....	32	.....	XEB	
Xylenol .....	21	.....	XYL	
Zinc alkaryl dithiophosphate (C7-C16) .....	34	.....	ZAD	
Zinc alkenyl carboxamide .....	10	.....	ZAA	
Zinc alkyl dithiophosphate (C3-C14) .....	34	.....	ZAP	
<i>Zinc bromide/Calcium bromide solution, see Drilling brine (containing Zinc salts).</i>	43	.....	DZB.	

Notes:

1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in Figure 1 to 46 CFR part 150 (Compatibility Chart).
2. See Appendix I to 46 CFR part 150 (Exceptions to the Chart).
3. “\*” From the March 2012 Annex to the 2007 edition of the IBC Code.
4. *Italicized* words are not part of the cargo name but may be used in addition to the cargo name.

TABLE II TO PART 150—GROUPING OF CARGOES

0. UNASSIGNED CARGOES

Acetone cyanohydrin <sup>1</sup> <sup>2</sup>	Dodecylbenzenesulfonic acid <sup>1</sup> <sup>2</sup>
Alkylbenzenesulfonic acid <sup>1</sup> <sup>2</sup>	Dodecyl hydroxypropyl sulfide <sup>2</sup>
Aluminium chloride, Hydrochloric acid solution <sup>1</sup>	Ethylene oxide <sup>1</sup>
Ammonium hydrogen phosphate solution <sup>1</sup>	Hydrogen peroxide solutions <sup>1</sup>
Ammonium nitrate solution <sup>1</sup>	Lactic acid <sup>2</sup>
Ammonium thiocyanate, Ammonium thiosulfate solution <sup>1</sup>	Long chain alkaryl sulfonic acid (C16-C60) <sup>2</sup>
Benzenesulfonyl chloride <sup>1</sup> <sup>2</sup>	Magnesium chloride solution <sup>1</sup> <sup>2</sup>
gamma-Butyrolactone <sup>1</sup> <sup>2</sup>	Molasses residue <sup>1</sup>
Chlorine <sup>1</sup>	Motor fuel antiknock compounds containing Lead alkyls <sup>1</sup>
Chlorosulfonic acid <sup>1</sup>	Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution <sup>1</sup>
Decyloxytetrahydro-thiophene dioxide <sup>2</sup>	NIAX POLYOL APP 240C <sup>1</sup> <sup>2</sup>
tert-Dodecanethiol <sup>2</sup>	Nitrating acid <sup>1</sup>
2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution <sup>1</sup> <sup>2</sup>	Nitric acid (greater than 70%) <sup>1</sup>
Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution <sup>1</sup> <sup>2</sup>	o-Nitrophenol <sup>1</sup> <sup>2</sup>
Diphenylopropane-Epichlorohydrin resins <sup>1</sup>	Noxious Liquid Substance, n.o.s. (NLS's) <sup>1</sup>
	Oleum <sup>1</sup> <sup>2</sup>
	Phosphorus <sup>1</sup>
	Phthalate based polyester polyol <sup>2</sup>
	SAP 7001 <sup>1</sup>
	Sodium chlorate solution <sup>1</sup> <sup>2</sup>
	Sodium dichromate solution <sup>1</sup> <sup>2</sup>
	Sodium hydrogen sulfide, Sodium carbonate solution <sup>1</sup> <sup>2</sup>